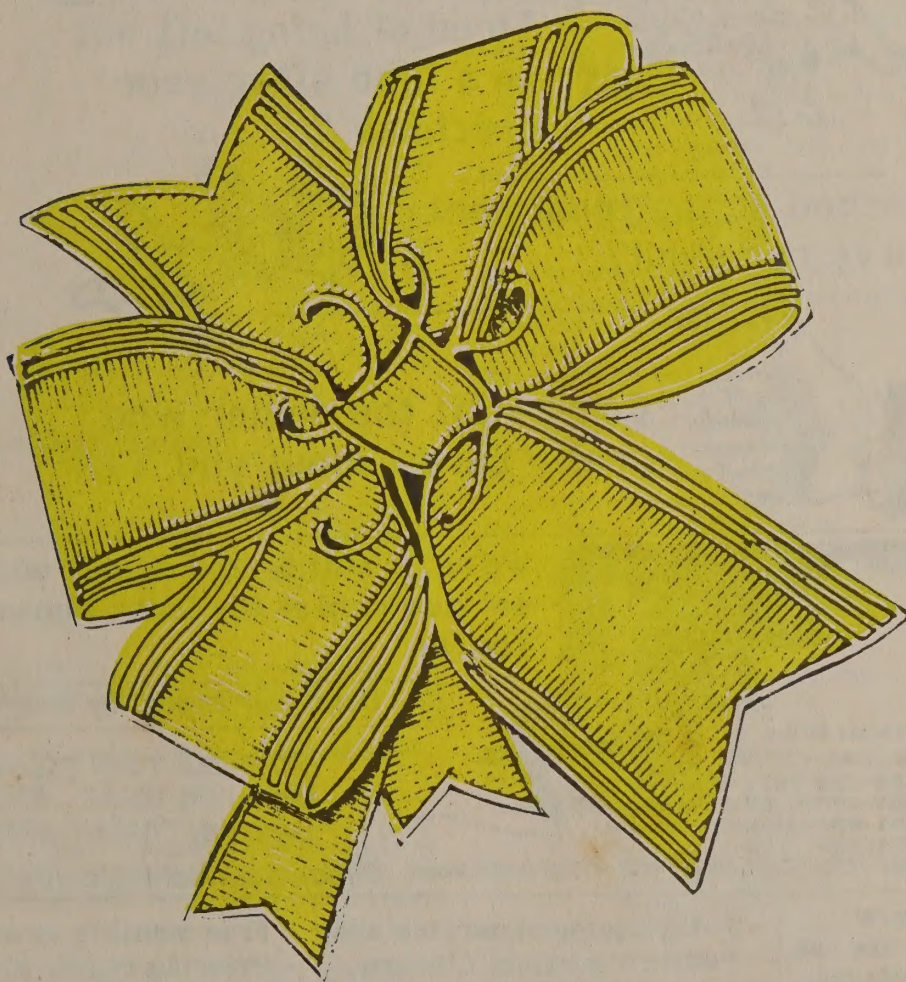




MARCH 1991



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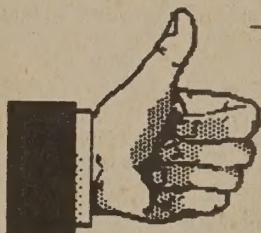
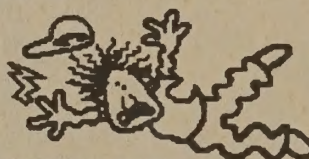
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Woodbridge Wireless, Inc.

EDITORIAL

Desert Storm is foremost in the minds of most of us these days. And so this issue of Auto-Call is being dedicated to all the people who are involved in the conflict - and especially to those Hams who are serving directly in the Gulf crisis. Page 25 lists the names of the Hams we know of at this time. We ask your help in adding to that list in the next issue. We plan to honor them every month until all are safely home again.

On a happier note, the FAR/QCWA **Annual Banquet** is scheduled to be held on April 6. Be sure to mark your calendar right now. This banquet has been a tradition for the past 35 years and it has become recognized as *The Amateur Social Event* of the Ham community.

Originally sponsored by the Washington DC QCWA Chapter, it was known for years as the "Old Timers' Dinner." As the function continued to gain in popularity and the attendance broadened to include ALL area Amateurs, the Foundation was asked to co-sponsor the affair. And so this 35 year old tradition has become known as simply the "Annual Banquet." It has featured some outstanding speakers over the years and has attracted many of the leaders and the "greats" of Amateur Radio.

The Speaker at the banquet this year will be our own **Ron Paries, WA4SIR** - the payload specialist on the recent STS-35 mission aboard the space shuttle *Columbia*. You have been reading much recently about Ron and his dedication to Amateur Radio and the SAREX program to capture the interest of young people. The Annual Banquet will be a great opportunity for you to meet Ron in person and hear his first-hand account of the space program. See the ad on pages 25-26 and make your reservations early. This should be a sell-out event.

We are honored to publish in this issue of Auto-Call the **T-MARC Repeater Directory** of all the coordinated repeater in the Middle Atlantic area. The Directory has been bound as an insert in the center of the magazine. Gently pull it from the staples and keep it in your files.

[Press down those staples when you get through so no one will get snagged!]

Ethel Smith - K4LMB
Auto-Call Editor

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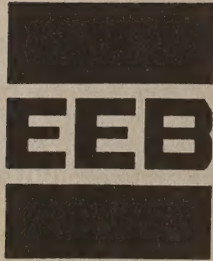
Coming Events

1991

Feb 24	Vienna Winterfest (See page 32)
Mar 3	York Springfest, York Pennsylvania (See page 13)
Apr 6 - 7	Greater Baltimore Hamboree & Computerfest (See Flyer on page 12)
Apr 6	Spring Banquet sponsored by FAR and local QCWA Chapters (Page 26)
Apr 13	Fort Pierce Florida Special Event Operation KJ4YF (See page 51)
Apr 14	Raleigh, NC Hamfest
Apr 21	Marconi Day
Apr 26-28	Dayton Hamvention
Apr 26	Dayton/Cincinnati QCWA Banquet (See page 38)
May 18	Maryland Mobileers Special Event from submarine USS Torsk
May 17-19	ARRL Atlantic Division Convention & Rochester Hamfest
May 18 *	Roanoke Valley ARC Hamfest
May 18	Maryland Mobileers Special Event from aboard submarine USS Torsk.
May 19	Wheeling, WV Hamfest/Computer Fair, Sponsored by Triple States
May 26	Memorial Day Hamfest, Howard County Fairgrounds
Jun 2 *	Manassas Hamfest
Jun 16 *	Frederick Hamfest
Jun 22-23	Field Day
June 29	WVA ARRL State Convention
Jul 28	BRATS Maryland Hamfest (See page 51)
Aug 4	Winchester Hamfest, Berryville, VA
Sep 8	Gaithersburg Hamfest
Sep 21-22	ARRL Roanoke Division Convention, Virginia Beach, VA
Sep 31 *	Shelby, NC Hamfest
Oct 13 *	Howard County CARA Hamfest

* Dates marked with an asterisk (*) are NOT confirmed. The dates shown are best guesses based on the schedules of previous years. Hamfest sponsors are urged to advise Auto-Call as soon as 1991 dates have been established. Thanks to the SouthEastern Repeater Association *Repeater Journal* for much of the Hamfest date information above.

Please keep Auto-Call advised of important Coming Events.
We are anxious to provide our readers with timely information
and to help you avoid possible conflicts when scheduling activities.



EEB

the EEB Hamgram

HAM & SWL NEWSLETTER

The HAMGRAM is a free service from EEB to all subscribers (Want to subscribe? Just fill in the subscription blank) and is intended to keep you, our customers and readers, informed about new products, special sales, close-out items, club & VEC information, and other news of interest.

You'll see it here before you see it in the big four monthly magazines. Why? Because we don't have ninety day lead times before publication.

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GSA CONTRACT

EEB is presently negotiating a contract with GSA. This particular contract involves many popular amateur radio products.

Amateur radio equipment gives our government more bang for the buck than most specially designed equipment. It is a well known fact that many pieces of amateur equipment function as well, and some better, than high priced specially designed equipment. The cost savings advantages for purchasing amateur equipment are real and very important in these days of tight budgets.

All items on this contract will be negotiated once per year. Therefore the procurement cycle is reduced in time span, reducing delays, and making fast availability of products.

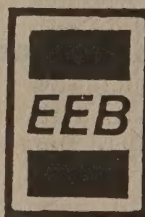
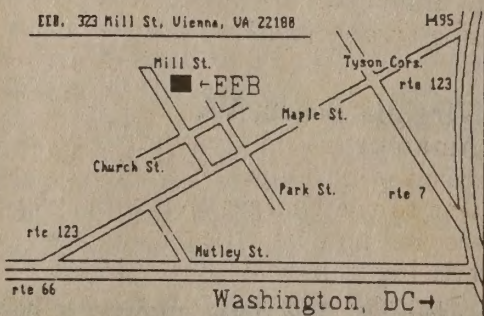
If you work for the U.S. Government please keep EEB's new GSA contract in mind.

Wanted: Trade-ins

Trader Scott says he needs late model used ham gear and is ready for some **real wheeling and dealing**.

Now is the time to upgrade to that new state of the art rig.

Also, Scott's consignment sales rack is quite low on stock, so dust off that equipment you no longer need and bring it over and let Scott turn it into cash for you.



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FCC HIGHLIGHTS

by Bill Grenfell W4GF

The FCC "...has eliminated the need for new Technician class Amateur Radio license applicants to demonstrate proficiency in Morse code in order to have all amateur privileges above 30 Mhz." An implementation date as early as February 1991 was considered possible. "Technicians who obtain their licenses prior to that date will be grandfathered, meaning their existing HF privileges will continue. " The codeless Technician written examination will have 55 questions. "New Technicians wishing to gain access to the HF privileges below 30 MHz now enjoyed by Novices and Technicians will be required to pass a 5 WPM Morse code test before three Volunteer Examiners accredited by Volunteer Examiner Coordinators, and will be given a Certificate of Successful Completion of Examination (CSCE) to serve as evidence of their qualifications. "There will be no call sign designator to indicate Technicians who have or have not passed a code test." (W5YI Report, 01/15/91); (ARRL News Release, 12/14/90); (Westlink Report, 12/21/90).

J.J. Freeman, engineer in charge at the FCC's Norfolk Office of the Field Operations Bureau, on January 25 sent notices of apparent violations to some ten SSB operator indicating they may have "used the Amateur Radio Service to facilitate the business activity of The Coalition to Stop U.S. Intervention in the Middle East."

Shortly thereafter, notices of apparent liability were sent to the originator of the message, the first bulletin board on which the message allegedly appeared, and to the operator of the packet BBS from which the TCC allegedly obtained the message.

The offending message asked recipients to phone a "900" number to "tell Bush 'NO WAR'"

ARRL Executive Vice President Dave Sumner writes in March QST that the packet message "was defective on two counts." By promoting a "900" number the message facilitates business activities, and having nothing to do with Amateur Radio the message fails to qualify as an information bulletin - thus making it "broadcasting."

BBS operator Tom Clark, W3IWI states "The implications of the action... are absolutely appalling. What is implied is that each and every station in a store-and-forward network is responsible for the actual message *content* passing through each node." "The FCC action," says Clark, "states that each BBS SYSOP is personally responsible for the 'correctness' of all messages merely passing through his system."

Sumner's editorial suggests that the packet community "take heed and pay more attention to the appropriateness of 'broadcast' packet traffic." (From ARRL Letter, 2/06/91.)

Excerpts by K4LMB)

Amateurs are advised to take their FCC license with them if they are carrying radios (or computers) aboard commercial airlines. They should also be prepared to remove batteries if asked to do so. Heightened airline security has prompted domestic airlines to be more stringent in the enforcement of their policies concerning electronics devices. Some international carriers may have much tighter restrictions, depending on the point of departure and destination. All Amateurs traveling on international flights should consider the possibility they may not be allowed either to carry or to check as baggage radios and/or computers, and should check with their carrier about the possibility of making arrangement in advance.

(ARRL Letter 2/06/91.)

Excerpts by K4LMB)

Amateur radio convicted felon Michael Harrison is no longer WB2PTI. He plead "...no contest to the charges that took him to prison where he now is." Harrison plead guilty of advertising non-existent amateur equipment at low prices, resulting in a 21 month prison sentence, a \$125,000 fine, and a requirement to make full restitution to all whose orders he failed to deliver. FCC's revocation of WB2PTI was based upon certain rules which make felons unqualified for an FCC station license. (Westlink Report, 04/04/91).

See page 8 for details on HR 73 regarding preservation of the Amateur radio spectrum.

BILL IN CONGRESS WOULD PROTECT AMATEUR FREQUENCIES.

On January 3, 1991, Congressman Jim Cooper of Tennessee introduced the Amateur Radio Spectrum Protection Act of 1991. The proposed legislation, designated H.R. 73, would prevent further loss of radio spectrum now allocated to the Amateur Radio Service.

H.R.73--upon passage--would ensure that "the Federal Communications Commission shall not diminish existing allocations of spectrum to the Amateur Radio Service after January 1, 1991.

"The Federal Communications Commission (the resolution reads) shall provide equivalent replacement spectrum to the Amateur Radio Service for any frequency reallocation after January 1, 1991."

Rep. Cooper, a fifth-term Democrat from Shelbyville, Tenn., is a member of the House Subcommittee on Telecommunications and Finance. Here is the full text of the bill, which was referred to the Committee on Energy and Commerce:

A BILL, To amend the Federal Communications Act of 1934 to prevent the loss of existing spectrum to the amateur radio service.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled.

SECTION 1: SHORT TITLE This Act may be cited as the "Amateur Radio Spectrum Protection Act of 1991."

SEC. 2. FINDINGS. Congress finds that--(1) more than 490,502 radio amateurs in the United States are licensed by the Federal Communications Commission after a thorough examination in radio regulations and technical principles of radio communications, as required by international regulations;

(2) by international treaty and Federal Communications Commission regulation, the amateur is authorized to operate stations in a radio service of intercommunications and technical investigations solely with a personal aim and without pecuniary interest;

(3) among the basic purposes for the amateur radio service is to provide voluntary noncommercial radio service, particularly emergency communications;

(4) emergency communication services by volunteer radio amateurs have consistently and reliably been provided before, during, and after floods, tornadoes, forest fires, earthquakes, blizzards, train wrecks, chemical spills, and other disasters; and

(5) the Federal Communications Commission has taken actions which resulted in the loss of over 100 MHz of spectrum to amateurs.

SEC. 3. FEDERAL POLICY REGARDING REALLOCATION OF AMATEUR RADIO SPECTRUM.

Section 303(c) of the Communications Act of 1934 is amended --

(1) by redesignating subsection (c) as subsection (c)(1) and

(2) by adding at the end of such subsection (c)(1) the following new paragraph:

(3) The Federal Communications Commission shall not diminish existing allocations of spectrum to the amateur radio service after January 1, 1991. The Federal Communications Commission shall provide equivalent replacement spectrum to the Amateur Radio Service for any frequency reallocation after January 1, 1991.

Rep. Cooper, 36, is the son of former Tennessee Governor Prentice Cooper, and a graduate of the University of North Carolina and of Harvard Law School. He attended Oxford University as a Rhodes scholar. Upon election to Congress in 1982 he became Tennessee's youngest congressman this century.

The ARRL now is engaged in adding co-sponsors of the bill and pursuing its passage into law, as well as seeking a Senate counterpart to H.R.73.

ARRL members are strongly encouraged to write brief letters to their own congressmen asking for their support of H.R.73, and to send a copy of those letters to ARRL Headquarters.

American Radio Relay League Report

By John Swafford -- W4HU

This ARRL Report provides a brief summary of information published in the ARRL LETTER and other reports. The LETTER provides timely news of interest to active Radio Amateurs. Any League member may subscribe to the ARRL LETTER.

WAR PUTS AMATEUR RADIO IN THE SPOTLIGHT. Conflict in the Middle East has brought Amateur Radio a flood of positive publicity, as well as reinforcing the value of organized Radio Amateurs' message handling systems.

Beginning last August, concurrent with the arrival of U.S. troops in the Middle East, Military Affiliate Radio System (MARS) stations were activated to handle messages to and from the area. All three MARS systems (Army, Air Force, and Navy/Marine) have been continuously active.

And while direct message or phone patch services to U.S. ground-based troops in the area have been limited (most of the traffic has been outgoing), direct communications by Amateur Radio are being maintained to neighboring countries, especially Israel.

One such operation, typical of several around the U.S., is headed by Al Jordan, WB1GKO, of West Hartford, Conn. Jordan began handling both message traffic and phone patches to Israel, from his home as well as from the Jewish Community Center in West Hartford.

"Five years ago we set up a station at the Center," Jordan says, "with just such a contingency (as the war) in mind." Jordan began handling messages into and out of Israel a few days before the United Nations Jan. 15 deadline in the gulf.

Amateur operations from the Center have been featured in stories on four local television outlets (ABC, CBS, NBC, and Fox), as well as in several newspapers.

"Radio hobbyists get scoop on world scene," read the headline in the Jan. 20 Hartford Courant. The story notes both the two-way work of Jordan and his team, as well as the surge of interest in shortwave listening.

A Courant story two days before, "Residents hungry for war news," noted the attraction of the BBC overseas service and of Israel radio. Managers of Radio Shacks in at least two Connecticut towns had sold out their stock of SW receivers.

CNN LEADS THE WAY. The Cable News Network began airing a piece on SWLing January 19, including a tape of Kevin Francis Sr., N2KXX, of Jamaica, NY, and interviews with Radio Shack, J & R Music World, and Barry Electronics employees in New York City.

The CNN report differentiated between listening and "talking on a ham Amateur radio set," but failed to note that a license is required for Amateur Radio work.

The Journal Inquirer of Manchester, Conn. took a different approach, in a feature article on WA1NXG, Bruce Marcus (see "Ham operator helps find police radio jammer," The ARRL Letter, Oct. 19, 1990). The paper focused on Marcus' use of a dish antenna to receive downlinks from CNN and other networks. "...Electronics whiz Bruce Marcus truly has a window on the world," the paper said.

Most people around the world got their news of the war from CNN's live coverage, beginning at 2340Z Jan. 16. The anchor for the first several nights was David French, N4KET, who was profiled by QST contributing editor Robert Halprin, K1XA, in the January issue. French, usually CNN's weekend anchor, was filling in for CNN anchor Bernard Shaw, who was in Baghdad.

Halprin reached French, on the fourth day of the war, for an exclusive interview.

French was conducting an interview when word came in his earphone to "go to Baghdad," he told Halprin. From then on, French said, "there was a lot of stuff in that ear!"

(Continued)

ARRR Report - Continued

French then, for several days, handled the "pile-up" with aplomb. His main job, he says, was to handle the many reporters around the world calling in, to orchestrate a coherent and efficient final product for CNN -- "net control station" comes to mind. French calls it "traffic merging."

French reports receiving a great deal of mail in response to the story about him in QST. Hams everywhere can take pride in the professional performance under stress of one of their own, David French, N4KET.

MARS OPERATIONS CONTINUE.

Meanwhile, it was "business as usual" on the MARS frequencies, according to Robert Loe, N4FFW, chief of Navy-Marine Corps. MARS. In Saudi Arabia, 13 stations (nine Marine, four Navy) were functioning long before the hostilities began. The Navy Seabees' stations used "MARS kits," (mostly typical Amateur Radio gear), while the Marines were busy installing new equipment recently donated by MCI Communications, Inc.

"Our military operators are selected on the basis both of their interest and their radio skills," Loe says. "They aren't necessarily hams" (as opposed to Stateside MARS operators, nearly all of whom are civilian radio Amateurs).

As many Amateurs are aware, MARS uses fixed-service frequencies often-but not always--near Amateur bands. Most civilian MARS operators are licensed Amateurs. Only a limited number are authorized to handle gulf traffic.

The media has not always distinguished between MARS and Amateur operations, which can create confusion, since MARS stations are permitted to do things that Amateurs are not.

Navy-Marine MARS is operating two gateway stations in Saudi Arabia, according to Chief Loe, passing traffic on AMTOR to an electronic mailbox in eastern Pennsylvania. Any where from 150 to 500 messages are handled per day, per station.

Loe says the system's "afloat network" consists of about 2,100 affiliate members (Stateside volunteers), 400 licensed ships, and some 150 stations on military bases and reservations. Only the shipboard stations (some one hundred

of them) have handled phone patches -- as many as 10,000 a month since August. These stations were shut down on Jan. 12, as were all "extraneous" operations on board ship.

The U.S. Army MARS system, according to its chief, Robert Sutton, numbered more than 200 military stations and some 3,800 civilian volunteers as the Jan. 15 deadline approached. Some 60 Army MARS stations were operating from Saudi Arabia, and were handling more than a hundred phone patches and over 1,000 MARSGRAMS a day in early January, according to MARS station chief Jim Pugh, at Fort Huachuca, Arizona.

By the end of December more than 50,000 "MARSGRAMS" and 8,000 phone patches had been handled.

Sutton estimates that in peacetime the MARS system saves taxpayers some \$13.5 million a year; that figure is expected to swell as a result of the current hostilities.

As of Jan. 21 all three services still were handling health and welfare traffic out of the gulf.

AMATEURS WORLDWIDE MONITOR LITHUANIAN INFORMATION NET.

Amateur Radio operators around the world monitored communications out of the Lithuanian capital city of Vilnius during occupation of the city by Soviet troops last weekend. Beginning Friday, Jan. 12, and into the following week, Lithuanian operators passed information regarding the occupation to the outside world via Amateur Radio.

Operating virtually around the clock, members of club station LY2WR linked their city to North America and elsewhere from a set-up at the Lithuanian parliament building; LY2WR is the club call sign for workers at the television transmitter/antenna site that had earlier been shut down by Soviet troops.

According to Roger Burt, N4ZC, of Mt.Holly, NC, messages from Vilnius have been passed to the U.S. Department of State in Washington, D.C., which has had only intermittent telephone contact with the Baltic country.

ARRL Report - Continued

Burt has been assisted by Amateurs elsewhere in North America for periods when propagation between Lithuania and North Carolina failed.

The Information Net also has aided in providing information on events in Latvia, including street demonstrations and the Soviet takeover of a police academy in Riga, the capital, on Jan. 14. That was reported by Latvian Amateur Operator YL1XX.

"I cannot say enough about the quality of these amateur operations," said N4ZC. "The cooperation and assistance of everyone has been peerless."

On a related note, Soviet Amateurs in Moscow, members of the Soviet Amateur Radio Emergency Service, also are reported to have arranged for the shipment of medical supplies from Germany to Lithuania, according to a U.S. source.

80-METER NOVICE BAND TO MOVE. On Jan. 10 the FCC announced a change in its rules to move the 80-meter Novice band from 3700-3750 kHz downward to 3675-3725. The change is intended to "reduce the amount of mutual interference between United States amateur stations and Canadian amateur stations," according to the FCC.

At the time the change (PR Docket 90-100) was proposed, Canadian Amateurs Operated radiotelephone down to 3725 kHz. The Commission proposed the change in the Novice allocation to prevent inter-mode interference with Canadian 'phone operators. The League proposed instead an expansion of the Novice band, to 3675-3750, and elimination of special power restrictions for General, Advanced, and Extra class operators. The FCC denied this, saying (Novice and Technician operators) "would have to share (the expanded band) with large numbers of United States stations transmitting with a higher power."

Last October, Canada's Amateur Service was "deregulated," in the process removing all mode subbands on 80 meters for Canadian Amateurs, in effect rendering the FCC proceeding moot. The Commission went ahead with the change, nevertheless.

The new Novice allocation can become effective no sooner than 30 days after publication in the Federal Register. The earliest effective date would be in mid-February, meaning that the ARRL novice Roundup (Jan. 26-Feb. 3) will not be affected.

CANADIANS CONTINUE PROTEST AGAINST NEW ANTENNA RULES. The Canadian Radio Relay League continues its battle to clarify Canada's new regulations on "non-broadcasting and antenna supporting structures" (The ARRL Letter, Oct. 5, 1990). Responding to an editorial in QST Canada, the Department of Commerce told the CRRL that it "does not expect amateurs to file with municipalities if all they are erecting is a simple wire antenna or a chimney-mounted vertical," says QST Canada in their December, 1990 editorial.

But CRRL maintains that the Client Procedures Act (CPC) "does not make this clear. It lumps Amateur stations in with all the rest, leaving the impression that the same rules apply to everyone. No wonder there is confusion."

"The CPC," says CRRL "as it applies to amateurs, is so poorly explained that personnel in DOC regional and district offices have not been sure what to do."

The CRRL, in a letter to Martin Masse, Minister of Communications, points out the inconsistencies in the CPC as written, and asks the minister to reconsider the matter.

Meanwhile, Canadian Amateurs face the prospect of an example cited by the CRRL: An amateur in Chicoutimi "walked into a DOC office to record a simple address change, and was told that his operating privileges were 'suspended' until he obtained municipal approval for his new antenna."

BRIEFS

* As mentioned in the Dec. 31 Letter, U.S. Amateur Radio operators no longer are automatically required to cease operations when the President declares war or a national emergency. This change in rules came about through the efforts of Dr. Dennis Bodson of the federal National Communications System.

□ □ □

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DX DX DX John Kanode, N4MM

At the recent ARRL Board of Directors meeting, a program for field checking of QSLs for the initial application for DXCC was approved. This program was recommended by the Membership Services Committee with the following guidelines.

- * The field checkers are to be individuals who are nominated by a DX club. A DX club would be defined as an ARRL affiliated club with at least 25 members who are DXCC members and which has, as its primary activity, DX. The field checkers are to be approved by the Division Director whose division includes the place of residence of the nominated person. The field checkers are appointed by the president of the ARRL.

- * All the QSL cards or confirmations to be field checked must be from a list of core countries. This core list shall consist of approximately 250 of the most common countries. The countries on the core list shall be determined by the ARRL Awards Committee. The QSL cards must be checked by two field checkers who have been appointed.

- * ARRL Headquarters Staff will develop operational guides for the appointed field checkers and other necessary items needed for the program. Full details will appear in

QST. Due to the backlog and other matters, it may be six months before the program will be fully operational.

New Chairman for the DXAC is Ted Pauck, Jr., K8NA from Troy, Michigan. New Roanoke Division DXAC member is Gary Dixon, K4MQG from Fort Mill, South Carolina.

Despite the war in the gulf, JY, 4X and A6 Amateurs are still on the air as of February 1991. YI1BGD was heard on ten meters several days before the fighting broke out.

Jim Smith, VK9NS is working on plans to operate from A5, S2 and VK0, Heard Island.

YAØRR has now gone QRT. It was the first operation from Afghanistan in many years. He was active on RTTY and most bands including the new HF bands. The window of propagation for the east coast was short and one had to be quick to work him. As usual, mostly on CW, there were bootleggers. The DX rumor mill says that a French operator will be there soon and will be there six months. All hope that he can get permission to operate.

The 5R8GN operation has been accepted for DXCC credit.

The DXAC is still reviewing the petition for the Penguin Islands and has received a petition to add North Korea to the DXCC list.

YORK, PENNSYLVANIA SPRINGFEST

The Fourth Annual York Springfest (Ham/Computer) will be held Sunday, March 3, at the Dover Firehall. Food, refreshments, etc. Inside tables \$10. Tailgating \$1. General Admission \$4. Unlicensed spouse and children under 12 free. VE Exams. Blacktop parking. General Admission 8:00 a.m. Talk-in on 146.37/97 and 147.93/33. For advance information and registration, call (301) 239-3978 or write:

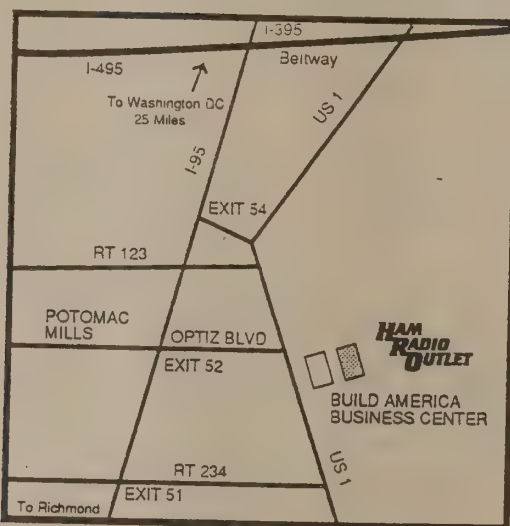
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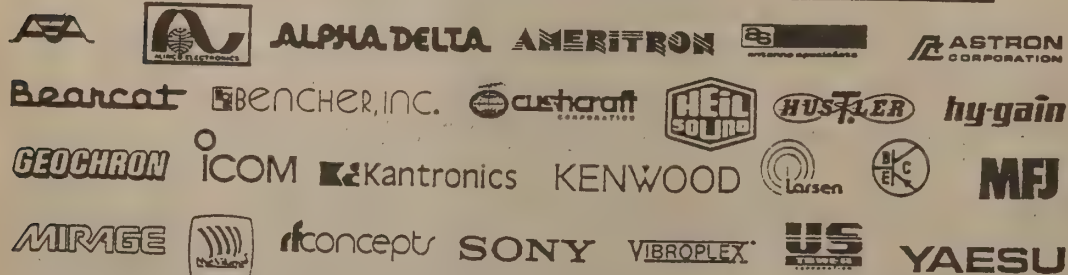
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FOUNDATION FOR AMATEUR RADIO
Volunteer Examiner Cooperative

Nancy Draheim - NK4U
3513 Old Post Road, Fairfax, VA 22030
(703) 691-0078

SCHEDULE OF EXAMINATIONS
1991

EXAMS

IMPORTANT NOTE: If you now have a Technician class license which was acquired prior to March 21, 1987, have a copy of it available when you decide to upgrade.

- Mar 2 South Peninsula ARC (ARRL VEC)
 Contact: Ed Brummer, W4RTZ (804) 898-8031
- SW Virginia Wireless (Roanoke, VA) (ARRL VEC) Walk-in
 Contact: Gordon Garrett (703) 268-1017
- Mar 3 University of Maryland ARC (College Park MD) (W5YI VEC) Walk-in
 Contact: Scott Rosenfeld N3FI (301) 513-5932
- Columbia Union College (Takoma Park, MD) (Laurel VEC) Limited Walk-ins
 Contact: John Muller, W3QF (301) 564-0178
- Mar 9 PROS (Salisbury, MD) (Laurel VEC) Walk-in
 Contact: Dave Bridge, KB3MT (301) 436-8360
- Mar 16 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
 Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Richmond (Richmond, VA) Walk-in
 Contact: Ron Bolton, WU4G (804) 798-5191
- Apr 6 Williamsburg Area ARC (Williamsburg, VA) (ARRL VEC)
 Contact: Andrew Swanson, WJ4X (804) 253-2811
- University of Maryland ARC (College Park MD) (W5YI VEC) Walk-in
 Contact: Scott Rosenfeld N3FI (301) 513-5932
- Apr 13 Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
 Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)
- Apr 20 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
 Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Apr 28 Antietam Radio Assn ARC (Hagerstown, MD) (ARRL VEC) Pre-registration
 Contact: Norma Jean Bollinger, NC3X (717) 597-8231 (Before 9:00 p.m.)

(Continued)

Volunteer Examiner Cooperative - Continued

- May 4 Portsmouth ARC (Portsmouth, VA) (ARRL VEC)
Contact: Art Thiemens, AA4AT (804) 484-2857
- Middletown VE Team (Middletown, VA) (ARRL VEC) Limited walk-ins
Contact: Walt Quitter, NC4B (703) 869-5241
- University of Maryland ARC (College Park MD) (W5YI VEC) Walk-in
Contact: Scott Rosenfeld N3FI (301) 513-5932
- May 18 Laurel ARC (Laurel, MD) (Laurel VEC) Pregistration desirable
Contact: John Creel, WB3GXW (301) 572-5124 after 6 p.m.
- Hampton Roads Radio Assn. (Hampton, VA) (W5YI VEC)
Contact: Bill Runyon, N4BDH (804) 487-8611
- Richmond (Richmond, VA) Walk-in
Contact: Ron Bolton, WU4G (804) 798-5191
- Jun 1 Virginia Beach ARC (Virginia Beach, VA) (ARRL VEC)
Contact: Ed Robison, WD4ROY (804) 468-0866
- University of Maryland ARC (College Park MD) (W5YI VEC) Walk-in
Contact: Scott Rosenfeld N3FI (301) 513-5932
- Jun 8 PROS (Salisbury, MD) (Laurel VEC) Walk-in
Contact: Dave Bridge, KB3MT (301) 436-8360
- Ole Virginia Hams ARC (Manassas, VA) (ARRL VEC) Walk-in
Contact: Harry Vorhauer, W4PVA (703) 368-0650
- Massanutten ARA (Harrisonburg, VA) (ARRL VEC)
Contact: Marshal Cooper, N4ZKH (703) 856-8012 (6-9 p.m.)

NOTE: All examinations require that you submit:
Copy of your current Amateur Radio license (bring original)
Completed FCC Form 610.
Check for appropriate examination fee.
Fees of individual VEC may vary.
ARRL Exam fee is \$5.25
W5YI Exam fee is \$5.25
Laurel Exams are still free.
Mountain VEC Novice Exams free
All other Mountain VEC Exams \$2.00

While most examinations are offered on a walk-in basis,
pre-registration is desirable in all cases.

Certificates of successful completion for theory tests
are not always accepted. Check with the contact person
for the examination you wish to take.

This schedule of examinations appears each month in Auto-Call Magazine
Sponsored by the Foundation for Amateur Radio

Training Classes

Robert Armstrong, WA4SQL

44 South French Street, Alexandria, VA 22304

(703) 751-2294

Novice Classes, Howard County, starting March 4. Sponsored by Columbia Amateur Radio Assn. Classes will be held at Centennial High School every Monday for 12 weeks. For further information contact Ed Wallace K3ET (301) 465-0042 evenings 7-9 p.m.

Novice & Tech Classes, Woodbridge, VA, started February 10. Sponsored by Woodbridge Wireless, Inc. Classes will be held at Our Lady of Angels, 7:00 p.m. For more information call Loyd Davis, K8EI (703) 360-0248.

Novice Training Classes, Baltimore, MD. Sponsored by BRATS. Classes are being held on an on-going basis every Friday evening at American Red Cross; 4700 Mt. Hope Drive, Baltimore (near Reisterstown Road Plaza Metro Station). Class is free; Materials (which you can keep) consist of a book and tape and cost \$19.90. For registration or information, contact Jeff Salamon, N3FHT at (301) 484-1362

Novice and Upgrade Classes, Lexington Park, MD. Sponsored by St. Mary's County Amateur Radio Assn. For further information contact WD8OYG or call (301) 862-2214.

GENERAL INFORMATION

Alexandria Radio Club
Anne Arundel
Antietam Radio Assn.
Arlington ARC
Baltimore ARC
BRATS
Chaverim, Inc.
Fauquier ARC
Frederick ARC
Laurel ARC
MADRAS
Maryland Mobileers
Montgomery ARC
Mount Vernon ARC
NASA/Goddard ARC
Pentagon ARC
Rock Creek ARA
St. Mary's County ARA
Shenandoah Valley ARC
Southern Maryland ARC
Sterling Park
Tri County ARC
Vienna Wireless
Washington Adventists
Woodbridge Wireless

Harry Jones - N4CWP (703) 204-1781
Tony Young - WA3YLO (301) 262-1917
Mike Vaia - WB8VBW (301) 797-1573
Fred Bardsley - WD4DHW (703) 533-0372
Phone 1-800-HAM FEST - VB
Jeff Salamon - N3FHT (301) 484-1362
Bob Teitel - W3IDT (301) 654-3484
Bill Mills - KC5PF (703) 937-4090 (H), 818-3955 (O)
Steve Bauman - W3FOA (301) 662-4552
John Albertine - W3GFX (301) 490-5286
Larry Ziecheck - N3GKZ (301) 530-8646
Bill Dillon - WA3SCW @ WB3V in Packet
Ken Nichols - KA3KGL (301) 977-5405
John Forrest - WZ4A (703) 971-3905
Vikki Gigante - KA3PVS (301) 249-2609
David Boyd - K9MX (202) 697-0630
Walt Ramsey - AK3B (301) 949-3954
Dwayne Kincid - WD8OYG (301) 862-2214
Guy Black - W4PSJ (703) 722-4952
Vic Curtis - WA3YUV (301) 888-1388
Art Nevins - WA4NTP (703) 437-9382
Al Sines - WA3QGA, Box 710, College Park 20740
Paul Wilkins - AB4CY (703) 560-2779
Henry Miller - W3BWN (301) 474-7376
Loyd Davis - K8EI (703) 360-0248

Letter of Appreciation Fairfax Hospital "Talk with Santa"

Foundation For Amateur Radio:

I thought it would be appropriate to bring to the attention of your [Auto-Call] readers the very high esteem in which our Amateur Radio community is held by the Pediatric nursing staff, the Chairman of Pediatrics (Dr. Mohsen Ziai) and the Administrator (Mr. Ed Devaney) of Fairfax Hospital as a result of our annual "Talk with Santa" on Christmas Eve.

In addition, each and every one of the parents and relatives of the little children who, unfortunately, had to be hospitalized on Christmas Eve, went out of his way to thank my helpers and me for the "magic" we were performing for their children. I truly felt as though I were the representative and goodwill ambassador for the Amateur Radio community, for, indeed, all the Amateurs who participated in the Christmas Eve exercise should feel equally as proud for the role each of them has played in brightening a young child's life, albeit a brief period.

I would like to especially thank all those Amateurs who were on standby while I often interrupted to allow another of the hospitalized children to speak with Santa (Bob Loder, WA4OGH). The logistics of maneuvering a rig with a 5/8th-wave antenna magmounted on a metal medicine chart adorned with Christmas decorations, followed by four assistants and a child care worker, can be quite formidable to say the least. It is especially difficult jockeying between two beds of critically ill children in the same room. It becomes embarrassingly awkward to wait too long between communications, especially if those children need some nursing care simultaneously. However, because of the courtesies extended me not only by Santa (WA4OGH) and many of the other Amateur Radio operators signing-in, by giving my call some degree of priority; any delay was kept to a bare minimum. It is for this very courtesy that I wish to thank not only Bob Loder but also all the other participants in the Christmas Eve exercise.

The hospital is planning an exhibit of some of the photographs taken during Christmas Eve; everyone is certainly invited to come and view the photographs.

Enrico Davoli, MD, WB4GKN
Member VWS, NVFMA, ARRL (Life).

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PUBLIC SERVICE REPORT

Hank Black - N3ESR

(301) 340-8595

Material for the PUBLIC SERVICE REPORT can be left to N3ESR on the WA3ZNW packet bulletin board on 149.09 MHz, called by telephone, or mailed electronically by modem on arrangements, or mailed to Public Service Report, 105 North Van Buren St., Rockville, MD 20850-1860. Deadline for receipt of material is the third of the month.

Deadline for receipt of material is the fourth of the month.

NATIONAL CAPITAL ARES COUNCIL NET

The National Capital Amateur Radio Emergency Service Council (NCAC) meets every Sunday at 2100 hours local time on Northern Virginia FM Association repeater on 146.79 MHz (-600 KHz) or, when the frequency is not available, on the Tri-County Repeater on 147.18 MHz (+600 KHz).

The purpose of this net is to keep the Amateur community informed of Amateur Radio Emergency Service (ARES) and public service activities in the National Capital area.

Anyone interested in emergency or public service communications is welcome to check into the NCAC net.

PRINCE GEORGES ARES MEMBERS RECEIVE AWARDS

On December 14, 1990, two members of the Prince Georges County ARES group were honored at the annual Prince Georges County Office of Emergency Preparedness Holiday Dinner held in Bowie, Maryland.

The honorees were Gould Turney, KA3DUE, and Paul Kirkpatrick, N3GIL. On hand to present the awards to the winners were Ken Schroeder, Director of the Office of Emergency Preparedness; George Dewees, KA3KIF, Emergency Coordinator (EC) for Prince Georges County; and Gary Mentro, WB3JRW, Maryland District Emergency Coordinator, National Capital Area.

Gould, KA3DUE, was honored for his service to ARES and the citizens of Prince Georges County in recognition of his work as Prince Georges County EC from 1985 to 1988. During his tenure, Gould helped to re-establish a working relationship between Amateur Radio and local emergency management officials. This laid the foundation for the present active ARES/RACES organization [in Prince Georges

County]. Unfortunately Gould had to step down from his post in 1988 due to health reasons. He is still active with the group, serving as net manager and unofficial "EC Emeritus."



Gould Turney, KA3DUE accepts Award

Public Service Report - Continued



Paul Kirkpatrick, N3GII

Paul Kirkpatrick, N3GII, is in charge of production for the Prince Georges ARES/RACES newsletter. Paul is responsible for the computer layout and printing of the publication, and often has single-handedly turned out each monthly edition. He has been central to the success of [the Prince George's County RACES/ARES Newsletter]. Paul also serves as Assistant Training Officer for Prince Georges ARES/RACES. In his spare time, Paul works for Prince Georges County Fire Communications. Paul was honored at the gathering as Prince Georges ARES/RACES Volunteer of the Year for 1990.

On behalf of the member of Prince Georges ARES/RACES and the citizens of Prince Georges County, we congratulate Gould, KA3DUE, and Paul, N3GII, on their well-deserved honors.

-Submitted by Pat Glick, N3EQJ

NIHRAC STILL ACTIVE WITH CRISIS ACTION TEAM

The National Institutes of Health Radio Amateur Club (NIHRAC) is still working in support of the Public Health Service sponsored "communications crisis action team." At the NIHRAC meeting of January 3rd, members and guest heard club President Tom Vegella, K1FEX describe what little support that would be available from the military (due to the current overseas war situation) for a major disaster which may occur in the United States.

Disaster Medical Assistance Teams (DMAT) provide a critical role for domestic emergency preparedness. NIHRAC members may be called upon to serve in a support role to the DMAT teams by providing HF communication links either to the NIHRAC Emergency Communications Center or to the Public Health Service station at Parklawn (Rockville).

PUBLIC SERVICE CALENDAR

- | | |
|------------|--|
| Mar. 22-24 | Fairfax County Special Olympics
Contact Bob Lewis, N4SCK (703) 830-3495
or Ed Ober, KC4EFJ (703) 591-0422
or Dan Gropper, KC4OCG (703) 281-2358 |
| Apr. 6 | National Capital ARES Council Meeting
10 a.m. - location to be announced
Contact Hank Black, N3ESR (301) 340-8595
or Harry Jones, N4CWP (703) 204-1781 |
| Apr. 7 | The Super Cities Walk, Multiple Sclerosis
Contact Hank Black, N3ESR (301) 340-8595
or Bob Lewis, N4SCK (703) 830-3495 |
| Apr. 13 | Cherry Blossom Parade
(date unconfirmed)
Contact Bob Lewis, N4SCK (703) 830-3495
or Ed Ober, KC4EFJ (703) 591-0422
or Dan Gropper, KC4OCG (703) 281-2358 |
| Apr. 14 | Red Cross 10K Run (Washington D.C.)
Contact Bob Lewis, N4SCK (703) 830-3495
or Ed Ober, KC4EFJ (703) 591-0422
or Dan Gropper, KC4OCG (703) 281-2358 |

□ □ □

SRAM-027

[Soviet Radio Amateur Movement]
by Dexter Anderson, W4KM

[Comments in square brackets are by translator]

We'll have to take a break this month from the ordinary fare of summary translations from the Soviet amateur press, because I lost the source material! While changing planes at Atlanta, I left the November 1996 issue of RADIO and translation notes behind. As the saying goes, as you get older, two things happen: You become forgetful and I can't seem to recall the other one...

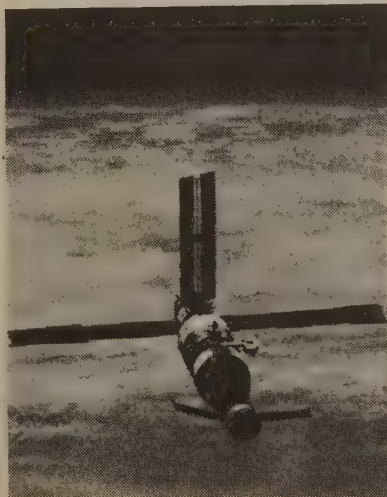
Fortunately, just as I was wondering what to put in SRAM-027, David F. Cowhig, WA1LBP/4, from Alexandria, Virginia, offered me material that had come his way by packet radio on the recent return to space by Cosmonaut Musa Khiramanovich Manarov, U2MIR/UV3AM.

It may be recalled that Manarov spent a year in space, from 21 December 1987 to 21 December 1988. During the latter part of this period he operated as U2MIR. He visited the Washington DC area in May 1989.

By way of introduction to Dave's material, two items on Manarov's present flight -- both entitled "News from Orbit" -- appeared in Nos. 1468 and 1469 of Boris Stepanov's (UW3AX) series "On the Amateur Bands" during December 1990 (No. 1468 contained the first reference I've seen to Manarov having been issued a "regular" "2 x 2" call, UV3AM):

"Cosmonaut Musa Manarov (U2MIR/UV3AM) has tested the amateur VHF FM gear aboard the 'Mir' orbiting complex (which hasn't been used since March 1990). The equipment operated normally and initial contacts have been made with amateurs in North America. The most likely working frequencies are 145500 and 145550 [kHz] (depending upon interference). An experiment involving the first 'space-to-space' contact with the American spaceship 'Columbia' -- whose crew includes another shortwaver, Ron Parise, WA4SIR -- is planned for the evening of 11 December." [NLD-1468]

"The first amateur 'space-to-space' experiment -- planned for the evening (Moscow time) of 12 December between the American space ship 'Columbia' and the Soviet orbiting station 'Mir' -- did not take place. On account of an unfavorable weather prediction for the landing area, the stay of 'Columbia' in space was reduced 24 hours, and it returned to Earth the same morning, several hours before 'Mir' and 'Columbia' reached the point where the



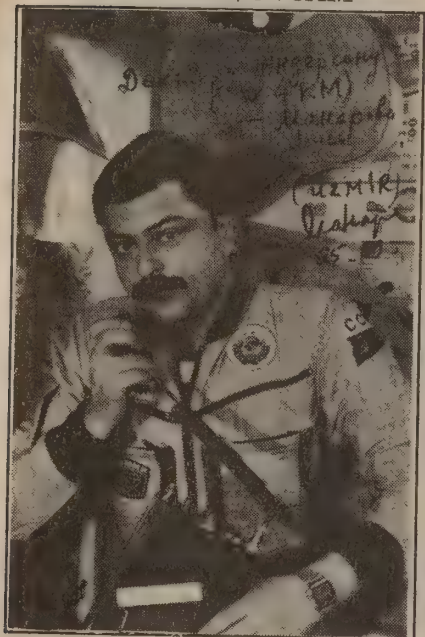
distance between them would support the experiment. Cosmonaut Musa Manarov, U2MIR, has had about 40 radio contacts, including several with Soviet radio amateurs. His basic operating frequency is 145550 kHz, [but] for U's he usually operates on the frequency 145500 kHz. The 'Mir' complex now has morning orbits over the territory of the USSR. The callsign of the crew commander, Viktor Afanas'yev, is U9MIR." [NLD-1469]

(Continued)

SRAM-027 - Continued

The following is the information that was passed on by WA1LBP. It originated with Gary A. Morris, N5QWC, in the packet-radio network USENET. Dave informs me that all USENET postings are in the public domain unless there is an accompanying copyright notice -- which there was not -- to the contrary. I'm sure I speak for other "Auto-Call" readers in thanking Dave and Gary -- and Gilbert L. Carman, WA5NOM, cited by Gary -- for the extremely interesting material.

U2MIR/UV3AM



[USENET message of 24 January 1991 from N5QWC]
U2MIR, Musa Manarov, received a packet station on the Progress Cargo rocket that was launched on January 14th. He got it online over the weekend and has had it running almost non-stop since then.

We first heard about him being up from a message on PACSAT:

[PACSAT message of 19 January 1991 from VK3DTO]
MAGGIE VK3CFI (WHO SPEAKS RUSSIAN) HAS JUST WORKED U2MIR ON PACKET SHE QSY'D TO 147.575 FOR THE QSO. 147.575 IS OUR LOCAL PACKET FREQ SO ALL THE LOCALS ARE GOING TO BE ASKING WHO IS U2MIR ON THEIR MONITOR HEARD LIST! I DONT KNOW IF ANY OTHER STATIONS HAVE WORKED U2MIR ON PACKET BUT IT MAY PAY TO KEEP AN EAR OUT 73S ANDY VK3DTO.

With the exception of the above contact on 147.575 all subsequent contacts have apparently been on 145.55 simplex. Gil (WA5NOM) was able to get connect (before my QSO) and supplied the following info:

[Excerpts from message of 21 January 1991 from WA5NOM]

I connected with the U2MIR-1 packet mailbox BBS this evening. They must leave it up on the mailbox when they are asleep or on duty. It looks like a fairly typical mailbox ...

He was on 145.55 simplex as usual. It's only a single user BBS, so a lot of the downlink transmissions are <DM> busy frames to others who are trying to get in. We have another pass tonight from 05:45 to 05:54z. ...

[Resuming N5QWC's message of 24 January 1991]

On the pass at 1906z on the 21st, I heard U2MIR talking to a Cuban station in Russian, when he finished I tried to call him, but then I started hearing packets. Quickly, switching to packet mode, I was able to connect to U2MIR (not U2MIR 1) and had a short QSO with Musa who was pretty busy trying to manually run the antenna controller, adjust the transmitter and receiver VFOs to compensate for doppler and type on the keyboard at the same time. Whew. I really couldn't believe I did it until I went back and studied the log file. But I'm ready to try again and see if I can leave him a message on his PBBS.

✕ ✕ ✕

If you were lucky enough to work Musa while he was orbiting on the MIR Soviet space station, QSLs should be directed to: Leonid Labutin; Veshiakovskaya St. 11-1 56; 111539 Moscow.

The newest edition of the Satellite Experimenter's Handbook has just been published by ARRL and AMSAT. This edition is much larger than previous ones and contains material on the Microsat series of satellites. For more information or membership in AMSAT, contact AMSAT-NA, PO Box 27, Washington, DC 20044 (301) 589-6062.

(From W5YI Report 1/15/91)



AMATEUR RADIO NEWS RELEASE

For Immediate Release

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to award thirty-six (36) scholarships for the academic year 1991 - 1992 to assist licensed Radio Amateurs. The Foundation, composed of fifty local area Amateur Radio Clubs, fully funds five of these scholarships with the income from grants and its annual Hamfest. It administers, without cost to the donors, seven (7) scholarships for the Quarter Century Wireless Association, four (4) for the South Milwaukee Amateur Radio Club; three (3) each for the Baltimore, (MD) Amateur Radio Club, the Radio Club of America, and the West Allis Radio Club of Milwaukee, (WI); and two (2) each for the Dade (FL) Radio Club, the Amateur Radio News Service, and the 10-10 International Net. It also administers one (1) each for the Richard G. Chichester Memorial, the Young Ladies' Radio League, the Columbia (MD) Amateur Radio Association, the Frederick (MD) Amateur Radio Club, the Vienna (VA) Wireless Society, and the Kevin B. Perdue Memorial.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$2000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Clubs are encouraged to announce these opportunities at their meetings, on their nets, during training classes, and in their club newsletters.

Additional information and an application form can be requested by letter or QSL card, postmarked prior to May 31, 1991 from:

FAR Scholarships
6903 Rhode Island Avenue
College Park, MD 20740

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(c)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purpose of the Amateur Radio Service.

Silent Keys

George V. Waldo, W3NS, an electrical engineer with the Federal Communications Commission for nearly 30 years died of an aneurysm January 9. He was 85. Waldo joined the FCC in Atlanta in 1941 and transferred to Washington the following year. He remained here until his retirement in 1970. He served in the U.S. Merchant Marine in the 1920s and was a member of the Veteran Wireless Association. During the 1960s, he served as a judge at Prince George's County science fairs. He is survived by his wife, Ellean Hall Waldo and a son, both of Silver Spring, Md.

(Submitted by W4HU)

Joe Robichaud, W4ADM died Monday, January 14th at Patomac Hospital. Joe served for many years as the Activities Chairman for Woodbridge Wireless, Inc. As such, he coordinated many club activities supporting the community. He was one of those "somebody elses" who gets things done in the club. Through his efforts the club gained a reputation for community service.

(From Woodbridge Wireless column)

An OO is a Ham, Too

Larry Parker, WG3Y
OO for MD/DC Area

I'm the Official Observer Coordinator for the Maryland/DC area, and I wanted the Amateur Radio community to know us better. Most people think that OOs are "band cops" or "policemen" of the frequencies, and I also have been referred to as "The Enforcer"; let's see if I can enlighten a few minds.

Some people think our day is not complete until we send someone an Advisory Notice. If I do have to send one of these to a ham operator, it's not to persecute or to malign them, but to offer help from another ham. When we notice an Amateur Radio station is having a problem, we make him/her aware of this problem so it may be corrected. An OO might be looking for some rare DX, but he is also keeping a ear out for such things as frequency instability, broad signals, key clicks, harmonics, distorted audio, overdeviation, etc.

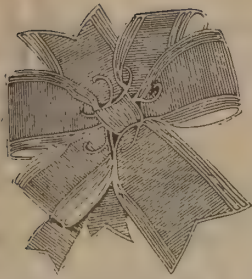
The Official Observer program has been sponsored by the ARRL for over 50 years to help Amateurs help each other. OO appointees have aided thousands of Amateurs to maintain transmitting equipment and operating procedures in compliance with the regulations. Our objectives as OOs are to notify Amateurs, by mail, of operating and technical irregularities before they come to the attention of the FCC.

While listening on the bands, we also hear excellent examples of good Amateur practice. This gives us the opportunity to send that

station a *Good Guy Report*. These operators should know that their excellent radio signals and operating procedures were noted by an OO. The Good Guy Reports give us the chance to say THANKS and KEEP UP THE GOOD WORK.

As the title of this article says, OOs are Hams, too. In my own case, I do look for rare DX and islands I don't have in my log. In less than 4 years, I have contacted 264 countries (230 confirmed) and, also, 182 IOTA (152 confirmed). The wallpaper I now have includes WAC, WAS, WNZ, and a few others. I have the pleasure of being a VE and enjoy watching people progress to new levels in this hobby. In January of this year, I started a Boy Scout Novice class through the Del-Mar-Va Council. American Legion Post 15 of Elkton, Maryland, who sponsor Troop and Pack 121, provided the housing for a permanent radio station. In addition, they purchased radio equipment and an antenna to support the Boy Scouts' enterprise. So, my friends, keep your ears perked for an all Boy Scout ham radio station in the very near future.

One final note, the Amateur Auxiliary is always looking for helping hands. If you live in the Maryland/DC area, have an interest in helping us make a difference in the Amateur Radio community, and would like more information about the OO program, please drop me a line at P.O. Box 3, Elk Mills, MD 21920



Remembering Our Hams in the Gulf

Auto-Call would like to honor our Hams who are serving in the Gulf area. We have learned about just a few, so far, and would like your help in adding to this list - until they are all safely home again.

Chaplin John Hoffmann - KA0GDI - Vienna Wireless member
Clair Allen - AA4KD - Vienna Wireless member
Richard Goodwin - N3CDH - Anne Arundel member

Several Media people have also been covering the Gulf story. These include Channel 4 cameraman Mike Whatley - WA4D. CNN anchor Dave French - N4KET has done a marvelous job here at home coordinating the input from the various reporters over there.

Congratulations to:

Ken Cohen, NI3F on being back on the job as Maryland Section Manager. Last month we reported that Ken had found it necessary to reduce his work load and John Barolet, KJ3E had agreed to assume the SM duties. It turned out to be a temporary change and Ken is now back on the job. Cohen expresses his sincere appreciation to KJ3E for providing assistance when it was needed and shouldering a considerable work load through a difficult period.

Richard Skolnik, KB4LCS on the great response to his book *The Wonderful World of Ham Radio*. The book has been praised in QST and Worldradio News, and is available to local radio stores. Worldradio says, "If you're looking for an understandable book that can be given to a non-Amateur in the hopes of sparking interest in this great avocation (this book) might be just the ticket." We may find ourselves with a best-seller author in our midst!

.....

1991 Annual Spring Banquet April 6

Name _____ Call _____

Guests Names/Calls _____

Address _____

City _____ State _____ Zip _____

Enclosed is \$ _____ for _____ reservations at \$20 each

Request Group Seating for _____ people. Names attached.

Make remittance payable to
Foundation For Amateur Radio

Mail Reservations to

Tony Young, WA3YLO

12016 Long Ridge Lane, Bowie, MD 20715

Phone (301) 262-1917

Annual Spring Banquet

Sponsored by Foundation For Amateur Radio and Local QCHA Chapters

For All Area Amateurs

6 April, 1991

Bethesda Officers' Club

SPEAKER

Ron Parise, WA4SIR

Astronaut on Space Shuttle STS-35

Make your Reservations Early

Table assignments are made in the order in which reservations are received.
Early applications take the best seats.

Club or group reservations will be available for tables of ten.
Select a spokesman for your group and let him order the reservations.
Deadline for advance reservations is March 30

ADVANCE RESERVATIONS

\$20 per person. Tickets at the door (without reservations) - **\$22**
This includes dinner, gratuity, tax, and parking

PICK UP YOUR TICKETS AT THE DOOR THE NIGHT OF THE DINNER

Tickets will be mailed only upon request and receipt of SASE
No refunds on "No shows"

CASH BAR OPENS 7:00 p.m

DINNER WILL BE AT 8:00 p.m.

Make remittance payable to
Foundation For Amateur Radio
Mail Reservations to
Tony Young, WA3YLO
12016 Long Ridge Lane
Bowie, MD 20715
Phone (301) 262-1917

T-MARC

THE MIDDLE ATLANTIC FM AND REPEATER COUNCIL

Repeater Directory

This listing of T-MARC area repeaters was compiled by the T-MARC Frequency Coordinating Committee from data contained in the frequency coordinating records, and is believed to be accurate as of January 1, 1991.

LOCATION	STATE	CALL	FREQUENCY		REMARKS	SPONSOR
			INPUT	OUTPUT		
Claymont	Del	WB3IKP/R	447.500	442.500	PL-3B (131.8)	Ridge Runners
Delmar	Del	K3NOQ/R	146.325	146.925		Peninsula Radio Operators Society
Dover	Del	W3HZW/R	146.370	146.970		Kent County Amateur Radio Club
Dover	Del	W3HZW/R	147.795	147.195	AP	Kent County Amateur Radio Club
Felton	Del	WB3ILS/R	444.325	449.325		WB3ILS
Greenwood	Del	KD3VI/R	449.900	444.900		KA3TVL
Millsboro	Del	K3JL/R	147.675	147.075		Sussex Amateur Radio Association
Millsboro	Del	K3JL/R	223.240	224.840		Sussex Amateur Radio Association
Newark	Del	WA3QPX/R	146.100	146.700		Delaware Repeater Association
Newark	Del	AK3A/R	222.440	224.040		04 Repeater Association
Newark	Del	WB2LSP/R	222.940	224.540		WB2LSP
Seaford	Del	KV3D/R	144.610	145.210	AP	KV3D
Wilmington	Del	WA3QPX/R	146.130	146.730		Delaware Repeater Association
Wilmington	Del	WB3JTK/R	146.355	146.955		Delaware Valley Amateur Radio Society
Wilmington	Del	K3WAJ/R	147.825	147.225	AP/LNK12	K3WAJ
Wilmington	Del	WB3DPJ/R	222.400	224.000	LNK12	A.W.A.R.E.
Wilmington	Del	KA3TWG/R	222.620	224.220		Penn-Del Amateur Radio Club
Wilmington	Del	KC3AM/R	447.250	442.250	PL-YZ (82.5)	Delaware Valley Amateur Radio Society
Wilmington	Del	KA3IFV/R	449.950	444.950		Ridge Runners
Adelphi	Md	WB3FRW/R	144.770	145.370		Harry Diamond Lab. Amateur Radio Club
Annapolis	Md	WB4APR/R	144.930	144.930	LNK24	WB4APR
Annapolis	Md	WB4APR/R	439.250	1289.250	P/ATV/LNK24	WB4APR
Annapolis	Md	WB4APR/R	426.250	923.250	ATV/LNK24	WB4APR
Arnold	Md	WB0FQC/R	222.480	224.080	LNK3	WB0FQC
Ashton	Md	K3WX/R	146.400	147.000	AP	Ashton Radio Communications Society, Inc.
Ashton	Md	K3WX/R	448.150	443.150	AP	Ashton Radio Communications Society, Inc.
Baltimore	Md	W3WCQ/R	144.990	144.990	LNK17	W3WCQ (ATV Audio)
Baltimore	Md	W3FT/R	146.340	146.940	LNK2	Baltimore Amateur Radio Club
Baltimore	Md	W3DID/R	147.630	147.030	LNK1/AP	W3DID
Baltimore	Md	W3BPX/R	147.885	147.285		Maryland Telephone Pioneers Radio Club
Baltimore	Md	WA3DZZ/R	223.360	224.960	LNK1	WA3DZZ
Baltimore	Md	W3WCQ/R	426.250	439.250	ATV/LNK17	W3WCQ
Baltimore	Md	WA3VBJ/R	444.075	449.075	P	WA3VBJ
Baltimore	Md	W3FT/R	444.625	449.625	LNK2	Baltimore Amateur Radio Club
Baltimore	Md	KA3GWC/R	448.200	443.200		KA3GWC
Baltimore	Md	W3DID/R	448.400	443.400	LNK1	Baltimore Radio Amateur Television Society
Baltimore	Md	W3WCQ/R	1253.250	911.250	ATV/LNK17	W3WCQ
Barstow	Md	WD8OYG/R	448.300	443.300	P	Southern Patuxent Amateur Radio Club
East Baltimore	Md	WB3FFV/R	52.350	53.350	P	WB3FFV
East Baltimore	Md	W3PGA/R	147.840	147.240	AP	Aero Amateur Radio Club
East Baltimore	Md	N3GQU/R	222.560	224.160	LNK18	WA3UTC
East Baltimore	Md	WA3ZBI/R	223.040	224.640		Summit Amateur Radio Association
East Baltimore	Md	W3PGA/R	444.575	449.575		Aero Amateur Radio Club
East Baltimore	Md	W3FT/R	222.640	224.240	LNK2	Baltimore Amateur Radio Club
North Baltimore	Md	W3JEH/R	222.240	223.840		W3JEH
Northeast Baltimore	Md	WA3DZZ/R	144.530	145.130	AP	WA3DZZ
Northwest Baltimore	Md	WA3DZZ/R	223.200	224.800	AP	WA3DZZ
Northwest Baltimore	Md	WA3DZZ/R	448.350	443.350	AP	WA3DZZ
South Baltimore	Md	KS3L/R	223.080	224.680		Summit Amateur Radio Association
West Baltimore	Md	W3FT/R	146.070	146.670	AP	Baltimore Amateur Radio Club
West Baltimore	Md	WB3ARQ/R	147.945	147.345		MARCOM
West Baltimore	Md	KS3L/R	222.360	223.960		KS3L/N3DRB
West Baltimore	Md	W3HMO/R	222.780	224.380	LNK3	W3HMO
West Baltimore	Md	N3DRB/R	444.475	449.475		N3DRB
West Baltimore	Md	WA3PFT/R	146.175	146.775		Harford County RACES
Bel Air	Md	N3CNJ/R	147.720	147.120		N3CNJ
Bel Air	Md	WA3PFT/R	444.775	449.775	P	Harford County RACES
Bethesda	Md	K3YGG/R	144.690	145.290	LNK16	NIHRAC
Bethesda	Md	K3YGG/R	442.925	447.925	LNK16	NIHRAC
Bethesda	Md	KC3OL/R	449.850	444.850		KC3OL
Burtonsville	Md	WA3UTY/R	448.650	443.650	PL-XA (71.9)	M & M (PL sometimes)
Cheltenham	Md	W3PT/R	147.750	147.150		Southern Maryland Amateur Radio Club
Chesapeake Beach	Md	W3ZNV/R	146.385	146.985		Calvert Amateur Radio Association
Chestertown	Md	WA3UJE/R	147.975	147.375		Kent Amateur Radio Society
Cheverly	Md	W3AIP/R	146.010	146.610	AP	Green Mountain Repeater Association
Churchville	Md	N3CNJ/R	222.880	224.480	P	HAREM
Churchville	Md	N3CNJ/R	444.225	449.225		N3CNJ

LOCATION	STATE	CALL	FREQUENCY		REMARKS	SPONSOR
			INPUT	OUTPUT		
College Park	Md	W3EAX/R	144.890	145.490		University of Maryland A.R.A.
Columbia	Md	K3CUJ/R	147.735	147.135		Columbia Amateur Radio Association
Columbia	Md	K3CUJ/R	147.990	147.390	AP	Columbia Amateur Radio Association
Columbia	Md	KA3HRJ/R	223.260	224.860		KA3HRJ
Cumberland	Md	K3MWI/R	144.850	145.450	LNK5	Mountain Amateur Radio Club
Cumberland	Md	WA3WSW/R	146.280	146.880		Mountain Amateur Radio Club
Cumberland	Md	KK3L/R	449.000	444.000		KK3L
Damascus	Md	WB2BZR/R	222.940	224.540		WB2BZR
Damascus	Md	K3LNZ/R	222.980	224.580		Potomac Area VHF Society
Davidsonville	Md	W3VPR/R	147.705	147.105	AP	Anne Arundel Radio Club
Davidsonville	Md	W3VPR/R	222.280	223.880	AP	Anne Arundel Radio Club
Davidsonville	Md	W3VPR/R	449.400	444.400		Anne Arundel Radio Club
Delmar	Md	N3FJM/R	222.420	224.020	P	DelMarVa Amateur Radio Club
Dunkirk	Md	N4EZV/R	443.625	448.625	P	N4EZV
Dunkirk	Md	N4EZV/R	907.000	923.000	P/S-S	N4EZV (Dir. Seq. Spd.-Spec.)
Easton	Md	WA3GVI/R	147.645	147.045		Easton Amateur Radio Society
Ellicott City	Md	K3CUJ/R	222.320	223.920		Columbia Amateur Radio Association
Ellicott City	Md	N3EZD/R	222.720	224.320		N3EZD
Frederick	Md	W3SOG/R	146.130	146.730	LNK5	Frederick Amateur Repeater Group
Frederick	Md	WA3OHI/R	147.660	147.060		WA3OHI
Frederick	Md	WB8VBW/R	222.600	224.200	P	Mid-Atlantic DX & Repeater Association
Frederick	Md	WA3OHI/R	443.125	448.125		WA3OHI & N3FJV
Frederick	Md	W3SOG/R	449.800	444.800		Frederick Amateur Repeater Group
Freeland	Md	K3SP/R	29.520	29.620	LNK4	K3SP
Gambrills	Md	WB4LNM/R	907.100	919.100	PL	WB4LNM
Germantown	Md	WB3KPJ/R	146.355	146.955		MARA
Germantown	Md	N3BLB/R	444.675	449.675		N3BLB
Germantown	Md	KV3S/R	449.200	444.200		Montgomery College Amateur Radio Club
Glen Burnie	Md	W3VPR/R	147.675	147.075		Anne Arundel Radio Club
Greenbelt	Md	W3ZM/R	146.235	146.835		AMSAT/Goddard Amateur Radio Club
Greenbelt	Md	K3GXF/R	146.280	146.880		Green Mountain Repeater Association
Greenbelt	Md	KA7UEC/R	443.325	448.325	LP	KA7UEC
Hagerstown	Md	W3CWC/R	146.340	146.940	AP	Antietam Radio Association
Hagerstown	Md	K3UMV/R	147.690	147.090		Antietam Radio Association
Hagerstown	Md	K3UMV/R	147.975	147.375		K3UMV
Hagerstown	Md	WB3DNQ/R	222.680	224.280		WB3DNQ
Hagerstown	Md	K3UMV/R	442.975	447.975		Antietam Radio Association
Hampstead	Md	WA3UTC/R	222.520	224.120	LNK18	WA3UTC
Hampstead	Md	WA3UTC/R	444.425	449.425	P/LNK18	WA3UTC
Hanover	Md	NS3V/R	449.950	444.950		NS3V/NT3Z
Harmans	Md	W3YVV/R	448.950	443.950	PL	W3YVV
Havre de Grace	Md	N3EIO/R	146.250	146.850		Chesapeake Bay Radio Association
Havre de Grace	Md	N3EIO/R	448.100	443.100		Chesapeake Bay Radio Association
Hughesville	Md	N7BW/R	144.790	145.390		N7BW
Jarrettsville	Md	WA3DUR/R	443.475	448.475	P	WA3DUR
Jessup	Md	WA3DZD/R	146.160	146.760	LNK6	Maryland FM Association
Jessup	Md	WA3DZD/R	223.160	224.760	LNK6	Maryland FM Association
Jessup	Md	WA3DZD/R	449.000	444.000	LNK6	Maryland FM Association
Kent Island	Md	WA3JGI/R	144.750	145.350	AP-TT908/LNK19	Kent Island Amateur Radio Club
Kent Island	Md	WA3JGI/R	222.680	224.280	LNK19	Kent Island Amateur Radio Club
Kent Island	Md	WA3JGI/R	448.850	443.850	AP LNK19	Kent Island Amateur Radio Club
Laurel	Md	K3ERM/R	443.425	448.425	PL-4A (141.3) AP	Frederick Amateur Radio Club
Lexington Park	Md	WA3UMY/R	52.030	53.030	LNK20	WA3UMY
Lexington Park	Md	K3HKI/R	146.040	146.640	AP	St. Mary's County Amateur Radio Association
Lexington Park	Md	WA3UMY/R	222.300	223.900	LNK20	WA3UMY
Lexington Park	Md	WA3UMY/R	448.050	443.050	AP	WA3UMY
Lutherville	Md	K3VC/R	144.610	145.210	LNK4	K3SP
Lutherville	Md	KB3LA/R	146.295	146.895		KB3LA
Millersville	Md	WA3PJQ/R	146.205	146.805	AP	Maryland Mobileers Amateur Radio Club
Millersville	Md	W3VPR/R	222.960	224.560		Anne Arundel Radio Club
New Carrollton	Md	N3EZD/R	144.570	145.170	<< BC >>	New Carrollton Amateur Radio Society
Ocean City	Md	KA3BAF/R	147.615	147.015	AP PL-5A (156.7)	Tri-County Amateur Radio Club
Ocean City	Md	WA3ZNW/R	448.450	443.450	L/LP	WA3ZNW
Odenton	Md	WA3GPC/R	449.700	444.700	LNK7	Central Maryland Repeater Group
Owings Mills	Md	N3CDY/R	444.275	449.275	AP PL-1B (107.2)	N3CDY (PL sometimes)
Potomac	Md	K4IWF/R	147.870	147.270		K4IWF
Reisterstown	Md	N3AGG/R	144.630	145.230		N3AGG
Rockville	Md	W3RCN/R	144.650	145.250		PARCARA
Rockville	Md	K3NG/R	144.850	145.450		MADRAS
Rockville	Md	KC3K/R	146.040	146.640	AP	Montgomery Amateur Radio Club
Rockville	Md	WB3DIO/R	223.340	224.940	AP	Montgomery Auxiliary Communications Service
Princess Anne	Md	KA3MRX/R	146.025	146.625		Somerset County ARES
St. Leonard	Md	WD8OYG/R	222.860	224.460	P	WD8OYG
Salisbury	Md	WA3ROW/R	146.220	146.820		DELMARVA Amateur Radio Club
Salisbury	Md	K3NOQ/R	146.325	146.925		Peninsula Radio Operators Society
Salisbury	Md	N3FJM/R	222.420	224.020		N3FJM
Salisbury	Md	KC3UV/R	449.050	444.050		KC3UV
Salisbury	Md	KB3QV/R	449.200	444.200	P	Peninsula Radio Operators Society

LOCATION	STATE	CALL	FREQUENCY		REMARKS	SPONSOR
			INPUT	OUTPUT		
Seat Pleasant	Md	KA3LAO/R	222.580	224.180	P	Tri-County Amateur Radio Club
Seat Pleasant	Md	N3ST/R	443.925	448.925	LNK7	Central Maryland Repeater Group
Shawsville	Md	K3HT/R	144.730	145.330		W3VRD
Shawsville	Md	WA3DUR/R	223.320	224.920		WA3DUR
Shawsville	Md	KB3VX/R	444.375	449.375	LNK7	KB3VX
Silver Spring	Md	N3AUJ/R	29.560	29.660	PL-4A(141.3)LNK15	N3AUJ & KD3R (PL sometimes)
Silver Spring	Md	KA3LAO/R	147.780	147.180	AP	Tri-County Amateur Radio Club
Silver Spring	Md	WB3GXW/R	147.025	147.825	PL-5A (156.7)	WB3GXW & KA3HGB
Silver Spring	Md	KB3NU/R	443.275	448.275	P	KB3NU
Silver Spring	Md	N3AUJ/R	444.025	449.025	PL-5A(156.7)LNK15	N3AUJ & KD3R (PL sometimes)
Silver Spring	Md	WA3ZNW/R	448.450	443.450	PL	WA3ZNW
Suitland	Md	N3AGB/R	449.350	444.350		Alexander G. Bell Pioneer Repeater Association
Tolchester Beach	Md	WA3BXW/R	449.250	444.250	P/PL-3B (131.8)	Bristol Emergency Amateur Repeater System
Tyaskin	Md	N3HQJ/R	146.265	146.865		Muddy Hole Repeater Group
Tyaskin	Md	N3HQJ/R	447.650	442.650	P	Muddy Hole Repeater Group
Westminster	Md	K3PZN/R	144.810	145.410	LNK14	Carroll County Amateur Radio Club
Westminster	Md	K3PZN/R	444.875	449.875	LNK14	Carroll County Amateur Radio Club
Wheaton	Md	N3AGB/R	52.250	53.250	AP	Metropolitan Comm's. Network Radio Club
Alexandria	Va	WA4CCF/R	52.130	53.130	LNK8	Alexandria Radio Club
Alexandria	Va	WB4MJF/R	144.550	145.150		WB4MJF
Alexandria	Va	WA9GVK/R	144.970	144.970	LNK13	Metrovision (ATV audio)
Alexandria	Va	WD4PDP/R	146.055	146.655	AP	Mount Vernon Amateur Radio Club
Alexandria	Va	W4HFH/R	147.915	147.315	LNK9	Alexandria Radio Club
Alexandria	Va	WA4CCF/R	223.220	224.820	LNK8	Alexandria Radio Club
Alexandria	Va	WA9GVK/R	426.250	911.250	ATV/LNK13	Metrovision
Alexandria	Va	WA9GVK/R	426.250	439.250	ATV/LNK13	Metrovision
Alexandria	Va	WA5ZAI/R	449.500	444.500		WA5ZAI
Alexandria	Va	W4HFH/R	449.600	444.600	LNK9	Alexandria Radio Club
Alexandria	Va	WA4CCF/R	907.600	919.600		Alexandria Radio Club
Alexandria	Va	WA4CCF/R	1270.600	1282.600		Alexandria Radio Club
Arlington	Va	KI4MB/R	52.050	224.060	P LNK23	KI4MB
Arlington	Va	N4EFJ/R	144.870	145.470		N4EFJ
Arlington	Va	WA4YVM/R	147.645	147.045		WA4YVM
Arlington	Va	KI4MB/R	222.460	224.060	LNK23	KI4MB
Arlington	Va	KI4MB/R	449.150	444.150	P	KI4MB
Bluemont	Va	WA4TSC/R	147.900	147.300	PL-4B (146.2)	WA4TSC (PL at night)
Bluemont	Va	WA4TSC/R	444.925	449.925		WA4TSC
Chantilly	Va	K4HTA/R	443.375	448.375	P	Vienna Wireless Society
Culpeper	Va	N4FAF/R	147.720	147.120		Culpeper Amateur Radio Association
Fairfax	Va	W4LBL/R	146.190	146.790	LNK10/AP	Northern Virginia FM Association
Fairfax	Va	WB4YHD/R	222.500	224.100	LNK10	Northern Virginia FM Association
Fairfax	Va	WD4KHP/R	222.820	224.420	PL-1B (107.2)	Northern Virginia 6 Meter Group
Fairfax	Va	WD4KHP/R	444.775	449.775	LP	WD4KHP
Falls Church	Va	W4AQD/R	144.750	145.350	L	W4AQD (open during emergencies)
Falls Church	Va	W4XG/R	146.310	146.910		Northern Virginia FM Association
Falls Church	Va	N4CHP/R	223.380	224.980	AP	N4CHP
Falls Church	Va	N4EFK/R	449.300	444.300		Melpar Amateur Radio Club
Falls Church	Va	K8ZOA/R	449.450	444.450		Downriver Control Group
Fredricksburg	Va	WB4LNT/R	147.615	147.015		Rappahannock Valley Radio Club
Great Falls	Va	N3AVA/R	449.050	444.050	AP	N3AVA
Harrisonburg	Va	WX4C/R	144.530	145.130		Massanutten Amateur Radio Association
Harrisonburg	Va	N4RAG/R	147.825	147.225		N4RAG
Harrisonburg	Va	N4RAG/R	147.990	147.390		N4RAG
Herndon	Va	WD4KHP/R	52.620	52.820	PL-1B (107.2)	Northern Virginia 6 Meter Group
Herndon	Va	N4FXP/R	144.710	145.310	AP	Herndon Repeater Group
Independence Hill	Va	AA4VA/R	448.800	443.800		Renex Radio Club
Leesburg	Va	KC3BM/R	222.420	224.020	LNK25	KC3BM
Lorton	Va	N4JOQ/R	144.570	145.170	<< BC >>	FBI Amateur Radio Association
Lorton	Va	WD4KHP/R	444.725	449.725	L	Northern Virginia 6 Meter Group
Lovettsville	Va	WB4FUJ/R	222.860	224.460	L	WB4FUJ
Luray	Va	N8HON/R	449.400	444.400		N8HON
Manassas	Va	WA4FPM/R	146.370	146.970	AP/LNK21	Ole Virginia Hams Amateur Radio Club
Manassas	Va	KB4CVL/R	222.740	224.340		KB4CVL
Manassas	Va	WA4FPM/R	223.060	224.660	LNK21	Ole Virginia Hams Amateur Radio Club
McLean	Va	WD4IWG/R	147.810	147.210	AP	AMRAD
New Market	Va	K4AVW/R	146.025	146.625		Shenandoah Valley Repeater Association
Singers Glen	Va	K4SAD/R	223.220	224.820	P	K4SAD
Singers Glen	Va	K4SAD/R	449.600	444.600	P	K4SAD
Springfield	Va	WD4KHP/R	444.825	449.825	PL	WD4KHP
Stafford	Va	N4SMP/R	144.670	145.270	AP	Stafford Amateur Radio Association
Sterling	Va	KD4DN/R	29.580	29.680	LNK11	KD4DN
Sterling	Va	WA4TXE/R	146.115	146.715	LNK25	WA4TXE
Sterling	Va	WD4KHP/R	222.120	223.720		Sterling Park Amateur Radio Club
Sterling	Va	WA4TXE/R	447.200	442.200	LNK25	WA4TXE
Tyson's Corner	Va	WD4KHP/R	223.120	224.720		Northern Virginia 6 Meter Group
Tyson's Corner	Va	KM4FI/R	448.500	443.500		KM4FI
Vienna	Va	K4HTA/R	146.085	146.685		Vienna Wireless Society

LOCATION	STATE	CALL	FREQUENCY		REMARKS	SPONSOR
			INPUT	OUTPUT		
Vienna	Va	K4HTA/R	222.340	223.940		Vienna Wireless Society
Vienna	Va	K4HTA/R	448.250	443.250		Vienna Wireless Society
Vienna	Va	WR4S/R	1272.000	1292.000		WB5MMB
Warrenton	Va	NZ4N/R	147.765	147.165		Fauquier County Repeater Association
Winchester	Va	W4RKC/R	146.220	146.820		Shenandoah Valley Amateur Radio Club
Winchester	Va	NB3O/R	444.175	449.175		Virginia Inbreds
Winchester	Va	W3CSG/R	447.000	442.000		W3CSG/W4TCK
Woodbridge	Va	WB4FQR/R	147.840	147.240		Woodbridge Wireless
Woodbridge	Va	WB4GJZ/R	223.180	224.780		Woodbridge Wireless
Woodbridge	Va	WB4FQR/R	449.900	444.900		Woodbridge Wireless
Washington	DC	KA3BTD/R	52.170	53.170		KA3BTD & KA3PQS
Washington	DC	W3EIL/R	144.510	145.110		Capital City Amateur Radio Society
Washington	DC	W3DOS/R	144.590	145.190		Department of State Amateur Radio Club
Washington	DC	WA3DZD/R	146.160	146.760	LNK6	Maryland FM Association
Washington	DC	N3AGB/R	147.960	147.360		Alex. G. Bell Pioneer Repeater Association
Washington	DC	N3DPD/R	222.220	223.820	L/AP	N3DPD
Washington	DC	W3NKF/R	222.900	224.500	AP	NRL Amateur Radio Club
Washington	DC	N3AQQ/R	443.875	448.875		D.C. Emergency Preparedness RACES/ARES
Washington	DC	WA3KOK/R	444.975	449.975		WA3KOK
Washington	DC	W3YTW/R	449.100	444.100	P	MADRAS
Washington	DC	K4AF/R	449.550	444.550		Pentagon Amateur Radio Club
Berkeley Springs	WVa	KK3L/R	29.520	29.620	LNK22	KK3L
Berkeley Springs	WVa	KK3L/R	144.910	144.910	LNK22	KK3L
Charles Town	WVa	N8EIV/R	146.385	146.985		N8EIV
Martinsburg	WVa	WA8FSE/R	144.550	145.150		Opequon Radio Association
Martinsburg	WVa	WB8YZV/R	147.855	147.255		WB8YZV

KEY to the REMARKS column

AP Auto-patch is available. Its use may be limited or restricted. Check with sponsor.
ATV Amateur television repeater.
L Limited usage repeater—check with sponsor. Repeater may have coded access.
LNK(#) Repeater(s) shown may be interconnected either full or part time.
P Repeater is proposed and is scheduled to be in operation within 6 months or less.
PL-(freq.) Low frequency continuous tone (CTCSS) required on input.
RTTY Teletype operation using audio tone modulation (AFSK) is invited . . . may be either BAUDOT or ASCII.
W-(freq.) Whistle is required to activate repeater (in some cases touch-tone or tone burst is acceptable).
TT Touch tone required to access the repeater.
<< BC >> All new 2-meter repeaters will be assigned to the "Builders Channel" pending an available frequency.
S-S Spread-Spectrum.

T-MARC voluntarily coordinates frequencies used by repeaters, "remote base" stations, and related activities in Delaware, Maryland, the District of Columbia, the northern one-third of Virginia, and the eastern panhandle of West Virginia. Inquiries relating to the coordinating of frequencies within this area, as well as additions and corrections to this directory, should be addressed to: T-MARC Coordinating Committee, 1419 Larch Road, Severn, MD 21144.

This directory lists ONLY "open" or limited usage repeaters. "Closed" repeaters, "remote base" stations, control and link frequencies, and other "closed" systems which are also coordinated by T-MARC, and uncoordinated repeaters, are not listed here. Therefore, this directory should not be used for coordination purposes. Please feel free to duplicate this directory. To obtain a copy of this directory, please send a self-addressed, stamped envelop (SASE) to: T-MARC, 7623 Old Washington Road, Woodbine, MD 21797.

Repeaters are built and maintained for many purposes, and to serve many users. Most sponsors welcome all users, however, regular users are urged to support their favorite machines—repeater operation is not a cheap or simple task. Please cooperate with sponsors by careful observance of FCC rules. Also, some sponsors may have special operating procedures for their machines. Please observe them as a courtesy to the sponsor and his users.

SIMPLEX ACTIVITY

Where possible, all Amateurs are urged to use simplex rather than repeaters. T-MARC does not presently coordinate simplex frequencies. However, an attempt is made to maintain a list of known organized simplex activity in the area.

REPEATER TEST FREQUENCIES

The following repeater frequency pairs have been set aside for testing and development of new repeaters and for the operation of temporary, portable, or emergency repeaters on a non-interference basis to coordinated repeaters: 144.57-in/145.17-out, 223.00-in/224.60-out, 442.875-in/447.875-out, 447.900-in/442.900-out, 908.00-in/920.00-out, and 1271.00-in/1283.00-out. No permanent repeaters will be coordinated on these frequencies, and coded access may be required to minimize co-channel interference. Please note that "<< BC >>" in the remarks column of this listing indicates that the listed repeater is on a "builders channel."

Foundation for Amateur Radio Ham of the Month

Margaret ("Holly") Bevan, N3BMB



"Holly" Bevan works EVERY DAY as a goodwill ambassador for our hobby. She is a member of two large Amateur Radio clubs and is also active in several local civic and hobbyist groups. Photography and stamp collecting are two other of her hobbies, and she is very active in both. She is a World War-II Navy WAVE veteran and a member of a club of veterans. Holly also works on the Board of Elections in Anne Arundel county. She has regular assignment in most of these groups.

All of this makes her Amateur activities even more impressive. She was the Public Information Officer for ARRL in Maryland until recently and she has edited the Anne Arundel Radio Club newsletter for over six years. As editor, she recruits a crew to help her assemble the monthly publication before the regular meetings. Each of the club reports to the Foundation for Amateur Radio is written by her. No public service event

goes by without Holly covering some assignment. These number ten or more each year by AARC. When the "Going to Work Net" assembles each morning from about 6:00 o 8:00 a.m. Holly is the informal net control. She attends club meetings at both clubs and is the "welcoming committee" for members and visitors at all 24 of the AARC bi-monthly meetings. She also attends most of the monthly board meetings.

A Ham for over ten years, Holly has assisted in the past five Novice classes (12 Saturday mornings each year). You saw her picture in the July 1989 Auto-Call as one of the recipients of the Governor's Amateur Radio Week proclamation. She does whatever is needed, and has assumed responsibility for Get Well greetings on behalf of the club when members are ill or hospitalized. We could all take lessons from Holly Bevan.

(Nominated by Bob Barnes, KR3X)

Ham of the Month Criteria

Following are guidelines for nominations for FAR HAM OF THE MONTH.

QUALIFICATIONS: ANY licensed Amateur in the local area who has contributed significantly to the Amateur service and/or its image in the community.

REQUIRED INFORMATION: 1. Name, call and address of nominee.

2. Description of the contributions which have been made by the nominee.

3. Name, call and phone number of person making the nomination.

NOMINATION FORMAT: Nomination in narrative form is preferred. We would like to keep the finished article to no more than one page (about 500 words) but write as much as you feel you need. In most cases, the committee will be in touch with the person who submits the nomination before publication is made.

AWARD PRESENTATION: Whenever possible, Ham of the Month awards will be presented by a FAR representative at a local club meeting or special activity.

There are over 50 clubs within the Foundation and there must be many "special" people deserving of recognition. Send your nominations any time throughout the year. Selection of one candidate will be made each month and any additional nominations may be held for consideration in future months. For further information contact HAM OF THE MONTH committee Chairman Tony Young, WA3YLO at (301) 262-1917. Send nominations in care of AUTO-CALL.

Vienna Wireless Society

25 Years of Public Service

Meetings: 2nd and 4th Fridays of each month, 7:30 p.m.
Vienna Community Center, 120 Cherry Street, Vienna, VA
Repeaters: K4HTA/R 146.085 in/146.685 out
222.340 in/223.940 out, 448.250 in/443.250 out
Nets: Every Thursday at 7:30 p.m. on 146.085 in and 146.685 out.
Pow-Wow Net Every Night at 9:00 p.m. at 28.400 MHz
Information: Pat Crosby, KA4FHK (703) 9789-6316 (H); (301) 731-9800 (W)
Training Classes: Paul Wilkins, AB4CY (703) 560-2779
Mailing Address: P.O. Box 418, Vienna, VA 22183

Preparations are proceeding and everything is coming together for our Winterfest™ being held on the 24th of February. (See the ad in February's issue for map and info.) With the help of a lot of people this should be a success again this year. The VE exam that is scheduled for Winterfest™ Saturday is also going to have the test for the new "Technician Plus" exam. I have received many calls about this class of license. I hope everyone comes and joins us this year. I will have the results of this year's Winterfest™ in the next issue.

The month of March brings us the one event designed to bring members and spouses together in a setting other than regular meetings or Field Day activities. This year, like last year, dinner will take place at the Westwood Country Club. For current/paid-up members of VWS, the club pays half of the cost. This is a great deal. With a superb meal, entertainment, and the friendship of all attending, this should be an exciting evening. More info and reservation forms will be coming later. Please mark your calendar for the 22nd of March.

One of my objectives this year is to put together a slide show about Amateur Radio to "take on the road" (so to speak). VWS wants to introduce our hobby to as many people and places as possible. One of the major places is the schools. We intend to contact the schools. We intend to contact the schools science teachers to let them know this show is available to present to their class. In order to accomplish this task, I need to get photos, old and new, articles about Hamming and any thing that would interest young people. Field Day activities, public service events, disaster help, and anything that will show what we are about. Prints, slides, newspaper or magazine articles will work. I am able to shoot almost anything into slides and, with the help of others, we can put together a script. Please bring anything you can to a meeting real soon. Everything will be returned to you.

Please remember our men and women in the Gulf. We have two members there and we are hoping to see them again real soon. A little prayer could help.

Pat - KA4FHK



VIENNA COMMUNITY CENTER

MADRAS

The Maryland Apple Dumping Radio Amateur Society Inc.

Meetings: 2nd and 4th Tuesday of the Month - 7:00 p.m.
At the NBC Building, 4001 Nebraska Avenue, N.W.
Repeater: 444.10/449.10 MHz 145.45/144.85 MHz
Mailing: P.O. Box 2468, Wheaton, MD 20902
Information: Larry Zeichek, N3GKZ (301) 984-6112

Schedule of Events:

March 12, 1991 - Regular Tuesday meeting at 7:00PM. A presentation on the "Tangiers Island DXpedition" will be given by Al Brogden K3KMO. This is a MADRAS DXpedition which took place a few years ago.

March 26, 1991 - Regular Tuesday meeting at 7:00PM. The program will be "Lightning, Part I." Get your shack ready for the storm season! This lecture series (Part II will be presented in April) encompasses the Fundamentals and principles of lightning through full practical lightning protection. Giving the presentation: Scott Standiford W3YTW.

MADRAS meetings are held at the WKYS conference room in the NBC building, 4001 Nebraska Avenue, NW. Washington D.C.

Club News

The MADRAS Novice class is currently meeting Saturday mornings. Please call Larry N3GKZ at 301-984-6112 for details if you would like to join.

Hani Raad, OD5RH/KA3YFX made 242 QSOs during his holiday return to Lebanon. To date Hani has received and answered 55 QSLs. If you made a contact and would like to increase the turn-around time for your card you can QSL directly to Hani here in the United States. QSL VIA:

Hani Raad A.R.S. OD5RH/KA3YFX
2212 "I" Street N.W. # 502
Washington, D.C. 20037

DX to Lebanon: For those of you who were unable to QSO with Hani during his trip, you still have a chance to confirm Lebanon via Hani's father OD5YU. They have set up a sked on Tu-Th-Sa at 8:45 EST (13:45 Z) on 28.400 \pm QRM.

The MADRAS Christmas meeting at the Marrakesh Restaurant was a dazzling success. All enjoyed the Moroccan food and the exotic belly dancer!

Upcoming Presentation Highlights:

Apr 23 Amateur Satellites, Eric Rosenberg, WD3Q.
May 14 Bio-effects of RF, Nicole Adaniya, N4YKR.
May 28 VHF/UHF Contesting, Andy Zwirko, KA1GD.

A part of each MADRAS meeting is a presentation that is either technical or operating in nature. We have a few programs that we are willing to present to other clubs in exchange for your club making a presentation to us. For more information, contact John Kingdon KA3VJH at 301-816-2555.

More information on club activities is available from Larry Ziecheck N3GKZ.

John Kingdon - KA3VJH

Antietam Radio Association

Meetings: 1st and 3rd Tuesdays of each month at 8:00 p.m. at the Civil Defense Center, Washington County Courthouse Hagerstown, Maryland

Nets: Tuesday: 7:00 p.m. 146.940/340 MHz FM
Wednesday: 7:00 p.m. 447.975/442.975 MHz FM
Thursday: 7:00 p.m. 147.090/690 MHz FM

Mailing: Antietam Radio Association, P.O. Box 52, Hagerstown, MD 21741

New Officers: The new officers elected for 1991 are:

President: Bill Drager, K3UMV
Vice Pres: Bob Roelke, N3GQS
Secretary: Mike Twedt, KA3VZR
Treasurer: Joyce Drager, KA3IXQ
Activity Chm: Barry Schmidt, N3ECM

Club News. This past year, the Antietam Radio Association sponsored the Maryland/DC QSO Party. With thanks to all who participated, it was quite a success. Page Pyne - WA3EOP, who organized the MD/DC QSO Party, will submit an article for future publication outlining some changes in the rules for 1991.

The 1990 Christmas Banquet was a well-attended success, with 52 club members, wives and friends attending. It was held at the Morris Frock American Legion Hall on Northern Avenue, Hagerstown. Mike Vaia - WB8VBW and Page Pyne- WA3EOC received recognition awards for their contributions to Amateur Radio in this area.

The Antietam Radio Association participated in numerous events this past year, providing communication services for many local organizations. Some of these events were: the Smithsburg Crop Walk, the HJC Triathlon (2 events), The Alsatia Mummer's Parade, and others. The final event of the year was in November, where we provided communications for the 50 mike JFK race.

This past year also saw the installation of the 440 MHz repeater, 447.975/442.975, located at the same site as the ARA 09 repeater. It is hoped that in time it will provide the kind of communication coverage as is presently experienced with the 147.090/690 2-meter repeater.

Don Marsden - KD3TY

Just for Laughs

A reward of 500 microfarads is offered for information leading to the arrest of Hopalong Capacity. This unrectified criminal escaped from a Weston Primary cell, where he had been Clamped in Ions awaiting the Gauss chamber. He is charged with the Induction of an 18 turn Coil named Milli Henry, who was found Choked and robbed of valuable Joules. He is armed with a Carbon Rod and is a Potential killer. Hopalong Capacity is also charged with driving a DC motor over the Wheatstone bridge and refusing to let the Band Pass. If encountered, he may offer Series Resistance. The Electromotive Force spent the night searching for him in the Magnetic Field where he had Gone to Earth. They had no success and believe Capacity returned Ohm via a Short Circuit. He was last seen riding a Kilocycle with his friend Eddy Current, who was playing "ohm on the Range" with his Harmonic.

(From Laurel MD ARC "Feedback" via RARS "Exciter" 2/91)

Capital City Amateur Radio Society

Meetings: Third Saturday of every month at 1300 local
Woodridge Public Library Conference room
18th & Rhode Island Avenues, N.E., Washington, D.C.
Visitors welcome

Repeater: W3EIL, 144.51/145.11 MHz - Open repeater

Nets: Wednesday night at 20000 local
Thursdays Packet Net at 2000 local
RTTY net at 2100 local. All are welcome

Mailing Address: CCARS, 1719 Franklin Street N.E., Washington, D.C. 20018

For the sixth straight year, just before Christmas, CCARS operator established two-way communications between The Hospital For Sick Children in N.E. Washington, D.C. and the "north Pole" so the young patients could talk directly with Santa Claus. Even though some of the children, who are long-term patients ranging from 5 to 10 years of age, were shy and hesitant about speaking into the 2-meter HTs, they were obviously thrilled at being able to express their wishes to old Santa himself. This annual yule-tide event, originated and sponsored by CCARS, has attained a high degree of realism through prior planning

and close cooperation between the hospital staff, parents, and CCARS members. In connection with the event, which is highly regarded by the staff, the CCARS organization presented to the hospital a complete Nintendo Action Set.

At our regular meeting of January 19th at the Woodbridge Public Library in N.E. Washington, D.C., the Capitol City Amateur Radio Society (CCARS) donated the ARRL Library Set of publications to the library. Mrs. Segrid Washington, Regional Librarian, was on hand to accept the books. She made a warm expression of gratitude on behalf of the District of Columbia Library system.



*Regional Librarian, Mrs. Segrid Washington accepts ARRL Library Set
From CCARS President "Steve" Stephens - W3ETX*

The members of CCARS were very pleased with the quality and scope of the Library Set and feel confident that the contribution of this

valuable training source to the community will help stimulate interest, learning, and growth in Amateur Radio.

Elmer Jones - K4EUX

Metrovision FAST SCAN - COLOR - ATV

Meetings: Quarterly: Next meeting March 7, 7:30 p.m.
Repeater: WA9GVK/4 (Video and Audio) 425-431 MHz in; 438-444 MHz out
Also accessible on 144.970, simplex, audio.
On-the-air: Sundays at 8:00 p.m.
Mailing: Metrovision, Inc., P.O. Box 8231, Falls Church, VA 22041
Information: Dick - WB3EPX (301) 439-8135
Gene - AD3F (301) 774-5307

The first Metrovision meeting for 1991 will be held at the QTH of Dick - WB3EPX on Thursday, March 7 at 7:30 p.m. We encourage all of our members and friends to attend. Light refreshments will be served. Directions to the meeting place are as follows:

The address is 2600 Muskogee Street, Adelphi, Md. From the Beltway, get off at the exit marked New Hampshire Ave - White Oak. Go to the second traffic light on New Hampshire Avenue, which is Powder Mill Road, turn right and go to the next traffic light and turn right on to Riggs Road. Go up and over the Beltway and down the hill and turn left at the first street, which is Muskogee. Go through the first intersection and 2600 will be the second house on the left. Look for a blue/gray Toyota Tercel with WB3EPX license tags parked in front. I will be monitoring 144.970 to talk you in if you have problems.

Lee - N4LXI, with the assistance of Ken - W3DFS and Woodie - K3DLH, has installed a sixty foot tower at his new QTH. In addition to the tower, Lee has installed four K1FO antennas which have improved his transmit and receive capabilities tremendously. Lee has also been experimenting with computer generated graphics for his ATV transmissions. The address at Lee's new QTH is: 485 Montalto Drive, Herndon, VA 22070.

In addition to Lee - N4LXI being back on ATV, we want to welcome Eddie - W3HQ who is also sending good quality video from his QTH in Southwest D.C.

It is my understanding, from talking with Tom O'Hara at P.C. Electronics in California, that the Tona 900 MHz antenna is no longer available for ATV use. Tom recommends the Downeast Microwave antenna instead.

See you on ATV.

Dick - WB3EPX

Big Pay for CW Operators

There is a current shortage of experienced Radio Operators who would like to pound brass on the high seas again. According to some seasoned veterans it is possible to get a six months refresher course, \$2500 a month pay while training, and \$6000 a month once you have your Second Class Radio telegraph license and sign on. An article in "The Gallups Islander" newsletter of Winter 1990 makes the report and comments, "Too good to be true? Right! But not all that bad, either, according to ... the American Radio Association (AFL-CIO)." Sound interesting?

Who said CW is dead?!

(From the "Gallups Islander," Winter 1990 ; Published by
The Gallups Island Radio Association, PO Box 397, Newington, Virginia 22122)

Alexandria Radio Club

ARES Net: Thursday at 9:00 p.m. on the 147.315 Repeater
10 Meter Net: Meets on Thursday nights at 9:30 p.m. on 28.350 MHz USB
Repeaters: Repeaters on 147.315/915, 444.6/449.6, 6 Meters and 220 MHz
Meetings: The second and fourth Fridays of each month at the Red Cross Chapter House, 401 Duke Street, Alexandria, VA

The January meeting was a milestone for the ARC. The club has gone from 2 meetings a month to one meeting a month starting this year. For those of you who missed the 4th Friday meeting - YOU DIDN'T! Chuck and Harry brought up the club packet station/BBS on 145.07 and most important of all the final changes to the new club constitution were made by the members present and the new constitution is now in force. Ask Chuck for a copy next time you see him.

Bob, WA4ZJR, attended the meeting and gave us some info into plans for this years Youth Aviation Career Academy. The YACA offers a private pilot ground school and an Amateur Radio school for high school age student's. The YACA lasts 2 weeks and is sponsored by the FAA, the Reserve Officer's Association and supported by the Civil Air Patrol. Rich, KA4GFY, spent a week working with Tom, N4BZ, and Gerri, N4GHI teaching the Amateur Radio Class, with great success.

The club is planning to participate in several public service activities in the coming year. These include:

Mar 9 The St. Patrick's Day Parade, 10:30.
Call Rich, KA4GFY
Early June Waterfront Festival
With a special event station
Some ARES training - See Rich's input!
Some exercise of the club HF station
in various contests.

We are looking for more members, the more we have the more fun we can have.

The club, in concert with the Mt. Vernon Club, is holding an upgrade class at the Episcopal Seminary on Monday nights. Many of the club regulars are their trying to upgrade. Rich, Harry and John, WZ4A are again acting as instructors. Come on down and join the fun.

Rick - N4ASX



*Adam Leese, KA3UEO and Ken Cohen, NI3F
Manning the Goddard Club Station WA3NAN
During the the Space Shuttle Columbia Operation in 1990*

Department of State ARC

Meetings: First working Monday of each month at 1200 Noon.
Main State Department Bldg, Room 3524, Washington, DC
1530-1600Z on 21.416 and 1600-1630Z on 28.416

Repeater: W3DOS/R 145.19 MHz (open rpt), Round Table, Thursdays 2030L
W3DOS/R located at 23rd & D Sts. N.W. Washington, D.C.
DOSARC encourages repeater use for public service events in
Washington area (e.g., Mall) and for general usage.

Mail: Department of State Amateur Radio Club
Department of State (FARA) Washington, DC 20520

Information: Tom, K3TW (301) 894-6678 (H)
Dave, AA4IC (703) 329-1949 (H)

The ninth VE examination sponsored by the Department of State and The George Washington University Amateur Radio clubs, held on Saturday, January 5, in the Tompkins Hall of Engineering of The George Washington University, turned out to be successful. Twenty four candidates were examined in a total of 60 elements. Exams were given in 20 code elements (1A, 1B, and 1C) and 40 written elements (1, 3A, 3B, 4A, and 4B).

Of the 24 candidates, successful license upgrades were at follows:

Novice = 1, Novice to Technician = 2,
Technician to General = 2, General to
Advanced = 2, Advanced to Amateur Extra =
2. New licenses passed: Technician = 7,
General = 1.

It appears that walk-ins are the way most of the candidates are taking their tests. This procedure seems to give them more flexibility of when and where they are going to attend the examination sessions.

The facilities were ideal. Class rooms were used for the examinations while the laboratory facilities and the equipment as used in the electrical engineering academic environment were available for the candidates to see.

Transportation was convenient, for the location of the examination sessions was one block from the Foggy Bottom Metro subway station. Non-restricted parking was also available on many of the local streets.

Words of thanks go to ARRL, AUTO-CALL, and the local Amateur equipment outlets as well as the local Radio Amateur clubs where notices of the examinations were made available. Also, thanks go to the following VEs who assisted with this examination: Fred Bardsley, Jr. - WD4DHW,

Jane B. Dorset - KG3R, Thomas H. Dorset - WB4J, Curtis Jordan - NF3C, Derrill Rohlfs - W3WOX, John Swafford - W4HU, and Dave Wollen - AA4IC.

The next VE examination session sponsored by the Department of State and The George Washington University Amateur Radio clubs is scheduled for 9:00 a.m. Saturday, July 6 at the same location.

For further information or pre-registration call Derrill Rohlfs - W3WOX (301) 423-0179.

Derrill C. Rohlfs - W3WOX



The Dayton/Cincinnati Chapter of the Quarter Century Wireless Association announces the 1991 Annual QCWA Banquet to be held on Friday, April 26, the first evening of the Dayton Hamvention. Neil's Heritage House has an outstanding meal for us. C.O.D. bar is at 6:30, the banquet starts at 7:30 p.m. EDT.

Speaker

Robert G. Heil, K9EID

Tickets \$15.00 each

Reservations Required

Come join the fun. Membership in QCWA is not required to attend.

For tickets or information contact:

Bob Dingle, KA4LAU

657 Dell Ridge Drive, Dayton, Ohio
Zip 45429 Telephone (513) 299-7114

Metropolitan Communications Network

Representing Six Meters in the Greater National Capital Area

Meetings: Quarterly, on the second Sunday of the month.
Next meeting Sunday March 10
Repeater: N3AGB/R, 52.250 MHz in; 53.250 MHz out.
On-the-air: Saturdays at 1900 hours.
Mailing: Bob Sporn - WA3GGO, 9927 Cottrell Tr, Silver Spring, MD 20903
Information: Bob Sporn - WA3GGO (301) 434-1719

The first quarterly meeting will be held Sunday, 10 March, at the QTH of Marvin Storey - N3FBO at 1400 hours. Yours truly, in applying for membership in "The Quarter Century Wireless Association" learned, in consulting my first log, that my third contact was Joe Saunder - K3UAL, a current member of our club.

Joe is also joining QCWA.

THE SUNDAY MORNING COFFEE NET (50.4 MHz) AM AT 0900 HOURS EST

A correction is in order. Stanley Brigham - W3TFA is in his 53rd year in ham radio, not 50 years. Stan is building an SSB transceiver and is almost through.

Recently our number of check-ins has increased, extending from Ellicott City to Waldorf, Maryland and various parts of Northern Virginia. With the advent of the new "No-Code Technician" license, we can anticipate an increase in check-ins.

MARYLAND FREESTATE SIX METER SIDEBAND NET (50.125 MHz) SUNDAYS AT 1900 HOURS. Chris Kushay - KA3LJR, our Net Control's place is being taken up by other members because Chris has to be out of town on business from time to time.

Six meters is alive and kicking - so check in either AM or FM on the repeater or Sideband.

Bob - WA3GGO

Stafford Amateur Radio Association

Meetings: Weekly, 0730 a.m. every Saturday morning, at the
"Nothin Fancy" Cafe on Route 1. All meetings are informal.
Repeater: N4SMP/R 145.27 out 144.67 in. Autopatch for members.
Mailing: c/o George Gautney - N4SMP, 9 Skyview Ct., Stafford, VA 22554-5232
Information: Dick Kirby - W4GFB (703) 720-0406 or
George Gautney - N4SMP (703) 659-5720
Packet: 145.07, W4GFB-2

SARA continues to offer testing opportunities in the hasting (that means out in the sticks) for hams to upgrade and prospective hams to get first licenses. Upgrades in the last go-around include Rebecca Disher, KC4LRX, now an interim advanced licensee and Bob Lynn, KC6PSD, who can now sign /AG. The new no-code license is obviously attracting at least a few applicants. Two are all set now with CSCE's for the the written elements for the new no-code license which comes into effect 14 February, 1991.

Spike, K9MX

Arlington Amateur Radio Club

Meetings: Third Tuesday of each month at 7:30 p.m.
Arlington Red Cross Chapter House, 4333 Arlington Blvd. (Rte. 50)
Net: Tuesdays (except meeting nights) at 7:30 p.m. on 144.87/145.47 MHz FM
Info: Rick Bunn, N4ASX Phone number (703) 685-7765.

Secretary's Notes:

The January meeting was the first of the new year, and the first with the new slate of officers in place. It was a well attended meeting with a discussion about the new changes to the Technician Class license.

By the time you read this, there will be a new class of ham license among us. The FCC has removed the code requirement from the current Technician Class, however keeping the name the same. As we operate from day to day, they will appear on the air and we should do our best to welcome them into our ranks. The local club will most likely be one of the first places they will socialize with us. With a little encouragement, they may become interested in learning more about ham radio and upgrading to a higher class license. Certainly there are many facets of ham radio that can encourage somebody to upgrade, and it's our job to show them.

Arlington Co. has a new EC. Rick Bunn, N4ASX, has agreed to take over the job. A large round of thanks goes out to N4EFJ for a job WELL DONE in the past years. Craig is still around and will be there to help out on club projects and public service events.

Following the business portion of the meeting, our program chairman, AB4YP, gave us a talk on his experiences on 10 meters. It seems that Jim has become a real fan of 10 meters because of all its unique characteristics. Spending all his ham radio career on 10, he has picked up some operating hints, and was kind enough to share them with us. Thanks Jim!

Rich - KA4GFY

ARLINGTON ARES

To get ARES off to a good start there will be two ARES meetings. The first on the 26th of February the second on the 26th of March. These are not club meetings and all who wish to participate in ARES activities are welcome.

President's Notes:

As I pointed out at the last meeting, the problems with the 145.47 repeater are not related to the Arlington Radio Club or directly to the ARES organization. I would, however, like to point out that the problems have had an effect on the club.

My feelings are that anything said on the air is in public and should show courtesy to all who may be listening. I don't feel that it's auditions for AM shock radio or a soap box for the free speech advocates. It's obvious to all that there is a strong difference of opinion here between myself and many of those who call themselves the "Insomnia Net".

I can only hope the "Insomnia Net" will make good on their plans to put up their own repeater and that they will have the courtesy to put it on a new coordinated frequency. The idea of putting a second repeater on the same frequency is nothing more than an ego trip or maybe an attempt to exercise some form of power over the frequency.

It's important to note that the above are my opinions and not necessarily those of the Arlington Amateur Radio Club.

Rick/N4ASX

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Sterling Park Amateur Radio Club

Meetings: Third Monday of the month except December, July and August
At Sterling Community Center Annex, Church Road (Rt. 625)
near Route 28, Sterling, Virginia

Net: Monday nights (except meeting nights), 8:00 p.m. on 28.320 MHz.

Mailing: Box 599, Sterling, VA 22170

Information: Dick Maylott, W4LMJ (703) 430-3842 or
Joe D'Angelo, WB2SAI (703) 444-1252

After an absence of several months, a report from the Sterling Park Amateur Radio Club reappears! Hopefully, we can do better in the future. Since our last Auto-Call appearance, we have held several meeting on which we can report. In October, Thom Gooding - K4LHB, local VHF authority, discussed UHF/VHF technology and propagation, and displayed his recently acquired 6-Meter WAS. The November meeting featured Howard Ziserman - WA3GOV, AMSAT area coordinator, who presented an interesting talk and slide presentation on the Amateur satellite program. At the January meeting, the 1991 budget was approved, and we saw a video from NCDXF about the 3W8CW/3W8DX Vietnamese DXpedition.

The meeting on February 18 should be equally enjoyable. Red Free - W3FTG will be leading a group presentation of several computer contesting software packages. Should weather be inclement, it will be

postponed to March. Guests are always welcome, so feel free to stop by.

SPARC, which was originally formed in the 1960s as a contesting club, is back at it. We are now planning to enter ARRL contests as a club entry in the "local" category. The first contest effort we supported was the January VHF Sweepstakes, and at least WA1ZXX, NB1Z, W4LMJ and KC4ATU were heard passing out "FM 19s." We are now gearing up for the upcoming ARRL DX contest.

Those of us who are volunteers with the QSL Bureau have done a lot of "housekeeping" lately to clear out envelopes before the postal rate increases went into effect. For those of you out there with envelopes on file, have you sent in some extra postage to your Bureau? We genuinely appreciate the fine effort that Nancy - NK4U and all the other volunteers continue to put in month after month to keep the Bureau running efficiently.

Dick - W4LMJ

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Mt. Vernon Amateur Radio Club (MVARC)

Meetings: Second Thursday of Each Month, 7:30 p.m.
Mt. Vernon Governmental Center, 2511 Parkers Ln., Alexandria
Repeater: WD4PDP/R 146.055 input 146.655 output
Nets: Every Tuesday at 8:00 pm (0100 UTC Wednesday's)
Starts on 2-meter then moves to 10-meter on 28.405
Information: Chris Morrow, W4WYL (703)765-5964
Training Classes: John Forrest, WZ4A (703) 971-3905
Mailing Address: c/o Chris Morrow, W4WYL, 7408 Recard Ln., Alexandria, VA 22307

Steve KB4WKK and Frank N4GUS are the folks to THANK for January's program. Steve brought two sobering video tapes...one of footage shot by FEMA of the aftermath of Hurricane Hugo and one about the deadly power of flash floods. We wouldn't have been able to watch the tapes without Frank's monitor! So THANKS again to Steve and Frank for your efforts.

MVARC was happy to WELCOME several visitors to the January meeting: George Riscili - WA4NKQ, Mike Mullins (no call yet, but soon!), Aaron Claxton - KC4UIZ, Jason Corder - KA8QHB, and Glen Swann - KB4LH. THANK YOU ALL for joining us...we hope you can come again. We also give a WARM WELCOME to a BUNCH of new members: Alan Jordan - KC4REQ, Robert McKeever - KC4VDN (whose new license arrived just the day before the meeting), A. Maitland Bottoms - AA4HS, Gary Loehrs N3ENH, Lonnie Dworkin - KC4TAS and Steve Hempling - N3IPN. We are really pleased you joined our group...again, WELCOME!

We got the good news that The Red Cross plans to renew its lease at the Beacon Hill location for another year. This means, of course, that MVARC will continue to have a club station at The Red Cross' invitation.

MVARC and the Alexandria Radio Club's January class is in full swing for General through Extra with a lot of emphasis on code. Now's your chance to get that upgrade you've been promising yourself! Call John WZ4A (703) 971-3905 for information.

Dave - WA1LBP reports that with Tom - N4BV and John - WD4EBY helping, the class and new amateur radio club at Rose Hill Elementary School is moving right along. The club still needs some equipment...if you're interested in donating to them, call Dave (703-922-3742).

March's meeting will probably not be held at the normal location. Call Steve KB4WKK (703-751-6379) or me (703-768-0272...and leave message on my machine if I don't answer) to get the scoop on where the meeting will be held. See you on the 14th!

Marci, KM4VM

BIG GROUND ROD

Here is another idea for simulating a BIG ground rod. Dig a hole about 6" in diameter, place a metallic ground rod in the hole and then backfill the hole with crushed bentonite; flood the hole with water and you have, effectively, a very big ground rod. Bentonite is itself very conductive so it gives the effect of increasing the diameter of the installed rod to the diameter of the hole. It is also very hydrophilic and will tend to keep itself hydrated; in fact it will swell to a volume that is something around 13 times its original volume.

(From article by Walter Reid Fletcher, WB7CJO published in Central Arkansas Radio Emergency Net Newsletter of 2/90)

Southern Maryland Amateur Radio Club

Meetings:	2nd Friday of each month at 7:30 p.m. Church of the Nativity, 5203 Manchester Dr., Temple Hills, Maryland.
Nets:	Tuesdays at 8:00 p.m. on 147.75/15 Repeater Thursdays at 8:00 p.m. on 28.447 USB
Packet:	WA3TAI full service PBBS in Ackokeek, MD 145.03 & 446.075 SMD (WA3TAI-5) NET/ROM Node in Ackokeek, MD 145.03
Repeater:	W3PT/R 147.75/15, Cheltenham, MD. Autopatch to 911
Mailing:	P.O. Box 273, Cheltenham, MD 20623
Information:	Vic & Linda Curtis, WA3YUV & KA3VNI (301) 888-1388

SMARC MEMBER NAMED FAR HAM of the MONTH. We are all very proud to see Irene Akers - W3RXJ, named by FAR as February's Ham of the Month. We SMARC members have thought all along that Irene was pretty FB; its nice to see her get recognized for all the work she's done over the years. Congratulations, Irene.

After giving the FCC last month off, we resumed our assault on the higher license classes in February. KA3VNB and KA3VNO both upgraded to Amateur Extra. Both have been licensed just over a year now, not wasting any time in climbing the ladder. Ten-year-old JoAnn Simpson - KA3WPD, upgraded to Technician. JoAnn is the youngest Ham we've had in the club that any one can remember. Now 12 year-old KA3VNM will have a colleague on the air. JoAnn was active in the Novice Roundup in January and turned in a very respectable 51,939 points from 353 QSO's and 87 Multipliers in 27 hours of operation. By last year's scores, this would be good for a top ten finish in the nation. I wonder how many ten year old kids have been PVRC members?

N3IAR is enjoying the publicity from her QST article and has reported receiving letters, Radiograms, and several calls on the air about it. She was even invited to the Richmond club's meeting in February to give a talk to their members. Fortunately, she hasn't generated any huge pileups on the .15 repeater and she still takes time to rag chew with us common folk.

The club repeater has finally been completely replaced, from AC plug to antenna. The last link was the new run of hardline up the tower and the repeater has been remarkably well-behaved lately. Even the old timers have to admit that it works at least as well as it did in the old days when it was full of state-of-the-art vacuum tube technology.

Public Service Coordinator N4ITE notes that SMARC has again been asked to provide communications for the Charles County March of Dimes Walk-a-thon on 28 April (Dayton Weekend!?!?!). Other possible Public Service events may include the annual Phone Outage at Southern Maryland Hospital in early May, but, as usual, no advanced notice is expected of this event.

KO7V

UPS is DOWN?

Are any of you computer users using a UPS system regularly? I've been having problems with my computer's internal clock losing time. In fact, it loses so much the date drops back to January 15, 1980! Replacing batteries and even the main PC board has not solved the problem. Process of elimination led to disconnecting the Uninterruptable Power Supply. It looks like that has been the culprit. With the UPS out of the circuit everything is working fine. If anyone else has had a similar experience, I would like to compare notes.

K4LMB (703) 536-8469

Montgomery Amateur Radio Club, inc.

Meetings: 1st & 3rd Wednesdays of each month at 7:30 p.m.
(underground parking on G-2), Executive Office Building, Montgomery County
Government Center, 101 Monroe St. Rockville, MD.

Repeater: 146.04 in (Rockville & Germantown) / 146.64 out (Rockville)

Mailing: M.A.R.C., PO Box 611, Gaithersburg, Maryland 20877-0611

Information: Jeff Horlick - KZ3F(301)258-0112; Steve Todd - K2IYQ(301)253-4172

Training: Ken Nichols - KD3VK(301)977-5405; Dick Hayman - K3DML(301)251-8721

The MARC club members have been pretty busy through the winter; being involved in repeater upgrades, RACES & public service events, membership drives, and training classes. Club membership is growing steadily, Astronaut Ron Parise-WA4SIR also being presented an honorary membership.

MARC started the fifth training class in the last two years on 5 February and because of the recent "No Code" announcement, this class will begin a combined Novice and "New Technician" class. The classes are funded by MARC, open to all and offered free of charge. Several club members teach the code, technical and regulatory topics. This looks to be the largest class (approx. 30) to date with several spouses and parents of club members and previous students attending.

Three special support activities of the club enrich training classes; the ELMER, NEATS and SOFTWARE LIBRARY programs. The ELMER team is beginning to make a difference in getting the new licensees from previous classes on the air. The NEATS (Novice Enhancement And Technical Service) program solicits, repairs and places used donated equipment with the new licensees to get them on the air quickly. ("Good", working, VFO-type rigs are always needed and gratefully acknowledged.) The Software Library contains numerous useful ham-related programs from the public domain for several type computers, and are available for a very small charge. The latest version of the excellent morse code program SUPER MORSE, is given to each student that requests it.

The "Repeater-Team" has been very busy installing and fine-tuning the new remote receiver site located near I-270 in Germantown. Once final adjustments are complete, this looks to be an excellent coverage enhancement for upper-Montgomery county and nearby areas.

MARC officers for 1991 are:

President - Steve Todd - K2IYQ
Vice President - Cary Binder - NI2Q
Treasurer - John Uhrlaub - KA3QFL
Secretary - Dick Bauer - WB3AAO
Directors - Stew Ehrreich - KC3K; John Younkens - KV3B; Jeff Horlick - KZ3F.

Recent meeting presentations:

John - KV3B; VHF Clinic
John - N3HBX; 10 Meter Summer Doldrums
John - KV3B; Microwaves & Devices

Upcoming events & program topics:

3 Mar. License Exams at Col. Union College (contact John W3QF)
6 Mar. Joel - KA3QPG Cadweld grounding system discussion and film
20 Mar. Al - NW2M; EME presentation
21 Mar. Special Exams at Gaithersburg High School (contact W3QF)
3 Apr. IJ - K9ICF & Cary - NI2Q presentation

Ken - KD3VK

"Ole Virginia Hams" Amateur Radio Club

Meetings: Third Monday of each month, 8:00 p.m.
Northern Virginia Coop Building
10323 Lomond Drive, Manassas, Virginia

Repeaters: Voice: WA4FPM 146.97 and 224.66
Digipeater WA4FPM-1 145.09
Digipeater WA4FPM-3 223.40

Net: Each Thursday, 8:00 p.m., 146.97 and 224.66

Information: Harry Vorhauer - W4PVA 703-368-6050
or Steve Frick - N4OGR 703-361-0008 or Metro 690-6547

Mail Address: Ole Virginia Hams ARC, PO Box 1255, Manassas, VA 22110

RECIPROCAL LICENSING - A CASE STUDY

A gentleman named Ronald Cerra took and passed the examinations given in Manassas in June 1989. He subsequently received an upgraded license (to advanced class) from the FCC. Ronald is currently serving at the US Embassy in The Hague. He applied to the Netherlands government for a reciprocal operating permit. The first reaction by the Netherlands government was to refuse the permit until Ronald could show he had passed the code examination. After a period of time a permit was eventually issued. Ronald is now KM4VX/PA. It seems that the bone of contention was a result of the US **not** requiring a sending test with a hand key.

All is well that ends well - listen for KM4VX/PA on CW. Thanks to Harry Vorhauer, W4PVA, for this item of interest.

With the advent of the Codeless Technician, Joe Tutino (AB4QV) is checking out the possibility of a combined Novice/Technician class in the near future.

The **OVH Hamfest and Computer Fair** will be held on the first Sunday in June at the Prince William County Virginia Fairgrounds. The Hamfest committee is hard at work getting everything in line. **VE exams** will be held on the following Saturday, June 8, in Manassas. The two events can't be held on the same day since most of the VEs will be busy helping with the hamfest.

Mike - N4REI

Foundation Meetings

The Foundation for Amateur Radio meets at 8:00 p.m. on the second Wednesday of each month.

Meetings alternate between Maryland and Virginia:

In even numbered months, meetings are held in Takoma Park, Maryland

In odd numbered months, meetings are held in Alexandria, Virginia

Visitors are always welcome

Membership is open to any Amateur Radio organization in the local area.

Phone (301) 725-5822 for information

The next meeting will be held in Virginia on March 13.

School Building at 1108 Jefferson Street

Talk-in on 147.18

Woodbridge Wireless, Inc

Meetings: 3rd Tuesday of each month, at 7:30 p.m.
Tall Oaks Community Center, Lake Ridge.
Intersection of Hedges Run Drive and Cotton Mill Drive.

Repeater: WB4FQR/R 147.84/24 and 449.9/444.9
WB4GJZ/R 223.18/78

Nets: Mondays, 8:00 p.m. local (0100 UTC) 147.84/24, 223.18/224/78
(the repeaters are linked for the net.)
Wednesdays, Slow CW at 8:00 p.m., 21.164 MHz
Saturdays 9:00 p.m. - in new 10 Meter Novice band 28.460 MHz SSB

Mailing Address: P.O. Box 112, Woodbridge, VA 22194

We were saddened at the death of our fellow member, Joe Robichaud, W4ADM Monday, January 14th at Patomac Hospital. Joe served for many years as the Activities Chairman for WWI. As such, he coordinated many club activities supporting the community. Many times we mentioned him in this column as the point of contact for the likes of the Lake Ridge Runner's events, rowing events on the Occoquan, parades, Boy Scout's food drives, etc. Joe was one of those "somebody elses" who gets things done in the club. He arranged with a local sports shop to get WWI logos, member's call signs and names on jackets and windbreakers. Through his efforts the club gained a reputation for community service. Joe ran the talk-in and information booth at Field Day. We will miss him.

The slow speed code net has changed nights because of the new Novice/Technician

class. It will now be on Wednesday nights starting at 7:00 pm on 28.250 MHz.

A telephone notification tree that will be used in times of emergencies was distributed with the club newsletter. Anyone interested in being part of the tree should contact Denis, WD4KXB, as a few slots will always be available. Being part of the tree does not obligate anyone, it is just a means of notifying a lot of people in a short period of time.

The February program will consist of a talk by Scott Webber of Columbia Cable. The popularity of cable systems and Amateur Radio means these systems cross paths often.

That's it for this report. As I write this, we're enjoying Spring-like weather. We hope you all have a good year and that peace will come soon with the safe return of our troops.

WJ4M

Atlantic Division Awards Sought

Nominations are now being sought for the 1991 awards to be presented at the ARRL Atlantic Division Convention.

"Amateur of the Year" nominees should be outstanding all-around Amateurs from the Atlantic Division with a strong record of service to the Amateur community. An award for lifetime service to Amateur Radio, the "Grand Ole Ham," is open to Atlantic Division OMs and YLs who have been licensed at least 30 years or are at least 50 years of age. New for 1991 is an Atlantic Division "Technical Achievement" award that may be presented to an individual or to a group.

Complete information on the awards and nomination procedures is available from Richard Goslee, K2VCZ, 24 Elaine Drive, Rochester, NY 14623. The deadline for nominations is April 10.

The Atlantic Division Convention is held in association with the Rochester, NY Hamfest.

Anne Arundel Radio Club

Meetings: First and Third Thursdays at 8:00 p.m.
Davidsonville Family Recreation Center
On-the-Air - Thursdays when there is no club meeting, 2030 Local on 147.705/105
Tuesdays at 2030 Local time on 28.410
Address: P.O. Box 308, Davidsonville, MD 21035
Information: Margaret (Holly) Bevan, (301) 923-0229

About forty persons reported on February 2nd for the first class of the 1991 Novice course. They enjoyed a showing of the video tape *"The New World of Amateur Radio"* before getting better acquainted with each other. Anyone wishing to join the class late and test with the group should contact either Tony - WA3YLO at (301) 262-1917 or Holly - N3BMB at (301) 923-0229.

The speaker for the March 21st meeting will be Tom Nolan - WA3YZN, who recently returned from Saudia Arabia where he worked as a civilian for 2½ years. He will give a general overview of the country and show a video tape taken there.

At the AARC Clubhouse on January 12th, Nancy - NT3Z and Dean - NS3V administered

19 exams to 6 persons. Five exams were passed and there were two upgrades. Assisting with the exams were: Bob - WC3I, Oscar - NV3G, Gordon - KD3UU (now WJ3K, Bill - KB3HX, Jim - NV3V and Holly - N3BMB. The next exam date at AARC is March 9th.

The FCC finally caught up with Gordon Davids. He has kept one step ahead of them since April of 1990. Within one year's time he has used KA3WJY, N3IJJ, KD3UU and now WJ3K. He has also passed all the Maryland Slow Net courses and is now an instructor with the group.

Charles Johnson - N3HFO and Marie Naisby have upgraded to General; David Mayo and John McCahan are now Techs.

Holly - N3BMB

Pentagon Amateur Radio Club

Meetings Monthly, on the second Wednesday of the month. Noon.
PARC clubroom (5B272), The Pentagon
Repeater: K4AF/R, 444.55 MHz. CTCSS 88.5 sometimes in effect.
Information: David G. Boyd - K9MX (703) 695-2020 or (703) 659-6241 or
William Klein - N4VBW (703) 697-8157 or (703) 590-2546

Ham radio has been largely pushed out of noon-hour conversations in the PARC shack as speculation about the latest word from the Persian Gulf War takes top billing. The lunch-hour sessions are as well attended as ever, though the make-up of the crowd varies day-to-day depending on what's going on in the war. Paul Bauer, N3DAN, handles Navy MARS traffic at least twice a week, and at least one of the radios stays tuned to Radio Baghdad (on the rare occasions it's on), or Israeli radio.

Steve Pate, N4YFH, now sports the silver oak leaves of an Army Lieutenant Colonel and is

scrambling frantically to make sure all his radio equipment will work on the 220 volt, 50 cycle systems in Germany. Dave Boyd, K9MX (better known as "Spike") has new orders for this summer, too, but the move is a short one - to the Operational Test and Evaluation Command (OPTEC) in Falls Church.

And finally, March is PARC's annual election. While we can't claim the campaign is producing a lot of excitement, we still have a few weeks to go. Who knows, maybe we can even have at least one contested office . . .

Spike, K9MX

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Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone and all ads must be pre-paid. Estate sales for Widows Assistance handled by a FAR club will be published without cost. Since no effort is made to investigate advertisers, no warranty can be implied.

Copy must be received by the 5th of the month preceding publication.

ESTATE SALE

- Estate of Louis Taich, W3IKX
- * KENWOOD TS 930S with cw filter
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 - SW2000 SWR meter
 - PC1A Phone patch
 - Electro-Voice Model 664 mic.
 - All for \$999
 - * NATIONAL NCL 2000, KW Linear
 - Amplifier, 80 thru 10 meters . . \$499
 - * CDE Ham IV rotator w/ control box \$150
 - * TELREX Monarch TM 30B 6-element
 - Tribander \$195
 - * BENDIX sychro differential trans-
 - mitter 31TDX6B 115V 50 Hz. Make an
 - Offer. Contact: Mrs. Louis Taich, (301)
 - 239-7760, 3000 Hoffman Mill Road,
 - Hampstead, MD 21074 (01)

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Silver Spring, Maryland (05)

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batteries \$140

WANT: HEIL BM5K Boom Mike, single
headset for Kenwood and 1980 U.S.
Callbook. Please leave message.
Greg - KA3DBG (301) 946-6460, Rockville,
Maryland (04)

FOR SALE: Kenwood station clocks - HC10.
Brand new - \$125. Mike (703) 845-5427

WANTED: Manual for the Hunter Bandit
2000 Linear Amplifier to make copy from.
Bob Teitel - W3IDT, Call (301) 654-3484
(Home) or (301) 913-0512 (Work)
3305 Glenmoor Dr, Chevy Chase, MD (04)

Need antenna or tower work done?
Call L. Chertok - W3GRF.
(301) 297-4888

ESTATE SALE

- Estate of Gerry Roberts, N3BAK
- * Azden PCS4000 2-Meter Mobile
 - Transceiver
 - w/mag mount antenna \$180
 - * Kenwood TS-130 HF Transceiver . \$450
 - * Kenwood SP-120 Speakers (2) Each \$5
 - * Kenwood MC-50 Desk Microphone . \$40
 - * DRAKE TV-3300 low pass Filter . \$20
 - * MFJ-900 Antenna Tuner \$35
 - * Heathkit Cantenna Dummy Load . \$20
 - * Channel Master CM-9512 Rotator,
 - fully automatic control \$95
 - * Panduit Ty-Rap tool \$5
 - * Heavy duty tripod-style Roof Mount,
 - used to support small beam
 - (TA-33 Junior) \$15
 - * Regulated Power Supply,
 - 13.8 VDC, 20 A \$60
 - Al Taylor - KN3U (301) 327-1819 in
 - Baltimore, MD or Ron Fineman - W3GIS
 - (301) 460-1737 Rockville (3)

HELP! Is there a Kenwood TS-440S/AT (or
comparable) HF transceiver out there for
sale? Call Bob - WB4FCR (202) 667-4240,
Washington, DC (03)

WANTED IN ANY CONDITION:

COLLINS RECEIVERS 51J4 and 75A Series
COLLINS 32V Transmitters
COLLINS 30K Transmitters
Howard Mills - W3HM, RT#3, Box 712,
Harpers Ferry, WV 25425. Telephone:
(work) 202-647-2428 (home after 7 p.m.)
304-876-6483. (08)

FOR SALE: ALPHA Model 78 No-Tune 1.5 kW
amplifier 1.8-30 MHz. Export panel \$2400
Bob - W4JNN (703) 560-7161 or write
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Rebuilt Rotors, Parts & Service
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SHACK SALES

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* TR-22 DRAKE 2-Meter Transceiver; 6 xtal positions on local repeaters; new nicads; 12V HEATHKIT Amlifier; no manuals \$85
* DX-150A Receiver - SWL and Ham used RADIO SHACK; 500Kc to 30 Mc; built-in speaker; no manual \$25
* KENWOOD Communications Receiver R-1000; excellent SWL receiver with digital readout; 200 Kc to 30 Mc; AM, CW, and SSB; original manual . \$200
* RCA AR-88 Shipboard Receiver; old but works ok; useful as boat anchor or conversation piece; manual included \$25
* HEATHKIT Dummy Load; filled with mineral oil - NO PCB's; Manual . . \$5
Contact F.L. "Bob" Slaughter - K4BXZ, (703) 281-3305 berfore 7:00 p.m., Vienna, Virginia (03)

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Save on all

AMECO, ARRL, CALLBOOKS, GORDON WEST, Etc
TEXAS INSTRUMENTS calculators; code keys, oscillators, etc.
Weather Satellite Handbook (List \$20) 1-9 \$18.25; 10-up \$17.00
Weather Satellite Software (List \$10) 1-9 \$9.10; 10-up \$8.35

1991 PASSPORT TO WORLDWIDE RADIO

(List \$17) 1-9 \$15.50; 10-up \$14.40

ARRL ELECTRONICS DATA BOOK

Includes: conversion factors & tables; component & materials; inductors & transformers; time & frequency; digital basics; networks & filters; catalog of circuit building blocks; workshop & lab practices; antenna & transmission lines.

(List \$12) 1-9 \$10.95; 10-up \$10.00

1991 ARRL HANDBOOK (List \$25) 1-9 \$22.75; 10-up \$21.25

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(List \$29.95 ea) Only \$27.25 ea., or order both for only \$26.50 ea.
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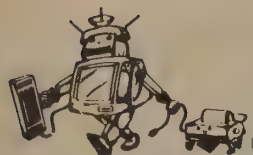
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FOR SALE: COMPUTER & ACCESSORIES -
IBM Model 3270 PC/XT including:
10Mb Hard disk, 360 Kb floppy,
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Two add-on 10Mb IOMEGA removable
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Ken Nichols - KD3VK (301) 977-5405
7-10 p.m. Mon. or Fri. & all day Wknds.

FOR SALE: ANTENNAS - (all with manuals)
Cushcraft ARX-2 Ringo Ranger \$25
Cushcraft AR-220 Ringo \$25
Cushcraft A147-11 (11 element beam) \$40
Mirage/KLM 440-6X (6 element beam) \$30
Mirage/KLM 440-10X (10 element beam) \$40
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7-10 p.m. Mon. or Fri. & all day wknds.



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Club is an active group of
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FOR SALE: MFJ Super Selector CW/SSB
Filter, Model MFJ-721 \$20
GSP 10 amp power supply \$40
Two famous "Entrepreneur Institute
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A) How to Make Money with a Micro-
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Temporary Help Service only \$40
All in excellent condition. Call WA3AGP
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FOR SALE: DUPLEXER, VHF, Sinclair,
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Includes field tuning guide. \$200 or
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Bob Hill, NK3W
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(301) 789-4772 21090-1702

Are you interested in 6-meter (50-54 MHz
Activities? Join the Metropolitan
Communications Network Radio Club, Nets:
Saturday 7 p.m. on the club FM Repeater
53.250 out/52.250 in; Sunday 9 a.m. on
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51.25. If you want more information
call Bob, KI4M at (703) 533-0650 or see
Auto-Call Index for club news column.

FOR SALE: MOTOROLA P-33 2-meter Trans-
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TEKTRONIX Model 114 Pulse Generator,
like new \$50

New 75 OHM HARDLINE, several hundred
feet. Use small toroid at each end
to feed with 50 ohm transmitter
and antennas. See ARRL Handbook.

With new toroids \$75

SCOPE - HITACHI V152B, like new.

Dual channel DC-15 MHz 5 mV/Div. . \$400

GENERATOR, ONAN 4CCK12R 4 KW

120/240 volt, 2 cylinder, long

lasting cast iron, slow speed

(1600 RPM) electric start,

dual carburetor for gas or LP.

With 8 gallon gas tank and LP

regulator. Excellent condition . . \$900

TUBES - EIMAC, Tetrodes, 4-250A/5D

22 (KW), 4-125A/4D21 (400 watt),

4-65A (100 W) New & used . Make offer

SEARS ADDING MACHINE Model 8/9.

Paper tape output with 4 rolls

of tape. \$20

All items in excellent condition

Frank Hoose - K4RZ Call (703) 592-3891,

PO Box 209, Bluemont, Virginia 22012

(QTH located between Leesburg

and Winchester) (03)

FORT PIERCE, FLORIDA SPECIAL EVENT. The

Fort Pierce ARC will operate KJ4YF from

1400Z-2100Z April 13 to commemorate the

4th Annual Trail Ride of the Florida

Cracker Trail Assoc. Operation will be

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bands. The Novice portion of 10 Meters.

For unique certificate, send a QSL and

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WANTED: Tube-type Audio Amplifiers,

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Tubes: 2A3, 6B4, WE 300s. Mark

van Roojen, 127 Moore St., Princeton, NJ

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REMEMBER the FAMOUS BRATS Maryland
HAMFEST and COMPUTERFEST,
Sunday, July 28, 1991
at the Timonium Fairgrounds
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FOR SALE: Ham Paradise about 1 hour from D.C. area. Tower, beams, full basement with finished radio room. 3 or 4 bedroom, DR, LR, 2 full baths, kitchen, built in book cases, wood stove plus electric plus gas heat; basement office, shop area, storage room and laundry area. Also extra large two car detached garage. Underground utilities. 10 acres - no TVI! ALSO
The K4RZ (Honor Roll) fire lookout tower at 1800 feet, (walk up the steps - no climbing) will support about anything you can dream up! Now with 10-15-20 meter beams, prop pitch driven with RG-17 and hardline feeds. AC power on top along with intercom to house and garage. One hour 15 minutes to DC, 1 hour to Tysons, 45 minutes to Dulles, 5 min to Mt. Weather. Available early 1991 at \$275,000. Call or write Frank Hoose, (703) 592-3891, Box 209 Bluemont, Virginia 22012 (03)

FOR SALE: Linear amp. SB-200 . . . \$250
Antenna tuner MFJ 949D . . . \$60
Antenna tuner TMC with remote tuning unit, 50 Ω system . . . \$100
Call Fred - KC4MOP (301) 567-9687 in evenings. Oxen Hill, MD (03)

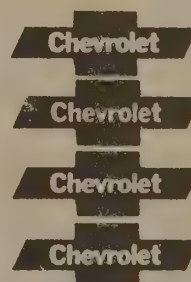
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WANTED: HAM EQUIPMENT AND OTHER PROPERTY. The Radio Club of Junior High School 22 NYC, Inc. is a nonprofit organization, granted 501(C)(3) status by the IRS and incorporated with the goal of using the theme of ham radio to further and enhance the education of young people nationwide. Your property donation or financial support would be greatly appreciated and acknowledged with a receipt for your tax deductible contribution. As 1991 begins, please look over whatever unwanted equipment you may have and call us. We will pick up or arrange shipping. You will receive the tax deduction, but most important, the privilege of knowing that your gift really made a difference in the education and upbringing of a child. Meet us on the SB2JKJ CLASSROOM NET, 1200 UTC on 7.238 MHz. We hope to see you at Dayton Hamvention. Write us at: THE RC OF JHS 22 NYC, INC., P.O. Box 1052, New York, NY 10002. Round the clock HOTLINES: Voice (516) 674-4072, FAX (516) 674-9600 (02 Pd)

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GSC 10 amp power supply . . . \$40
Two famous "Entrepreneur Institute" Reports: (A) How to Make Money with a Microcomputer
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Cost \$120, never used. . . Both for \$40
Four new Snap-Together choke cores to reduce RFI. (Cost \$16) . . . \$12
All in excellent condition!
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FOR SALE: HEATH SB-200, Manual Mint condition, . . . \$325
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Please let our our advertiser know you see their ads and we appreciate their support of Auto-Call.



N3GCV

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Home: 770-DAVE (8283)

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SHACK SALES



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Johnson Pacemaker
B & W 51SB ssb gen
B & W L-1000A amp
Gonset GSB-201
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Many other pieces too numerous to list!
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If you are in the market for good clean used rigs and shack accessories we can supply your needs!!

MONTHLY FEATURE

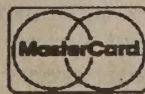
**WE ARE MOVING OUR
STORE TO LEESBURG!**

MAR
91

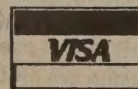
SKYPOINT HAM CENTER WILL NOW BE LOCATED IN LEESBURG, VA. WE WILL BE IN A NICER FACILITY TO SERVE YOUR NEEDS BETTER. THE NEW ADDRESS IS ..15 C CATOCTIN CIRCLE JUST OFF RT 7 & KING STREET.

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Tue-Thur..10 - 6
Fri..12 - 9
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Copy for Auto-Call will be accepted in any form - handwritten, typed, compatible computer disk or modem. All hard copy is re-typed to preserve uniformity of style in the magazine. We use Word Perfect 5.1 word processing program, Hayes compatible modem (300 or 1200 baud) and can use either 3½" or 5¼" MS-DOS diskettes.

In determining space requirements, figure about 600 words per page (50 lines at 12 words per line), including the space taken up by headings, photographs, etc. Either black-and-white or color photos can be used as long as the contrast is good. Master copy, which is to be reproduced directly, should be in black ink on white paper and should be in proper page ratio. (Copy space is 7" wide by 9" high.) Copy can be reduced or enlarged as necessary.

Columns from Foundation member clubs are eagerly solicited and any items of general Amateur Radio interest are most welcome. The editor does reserve the right to edit or reject any portion of any copy submitted and to make minor changes to make copy fit available space.

SHACK SALES

Deadline for copy is the 5th of the month preceding the publication date. Shack Sales will **NOT** be accepted over the telephone. Full address must be provided for our reference but need not be published. Each ad must include the call sign or the full name of the advertiser. If the full address is not included in the ad, we prefer to include the city along with a telephone number so that readers will know whether a long-distance charge is involved. The entire telephone number - including city and state - is counted as only one word. We do not count postal zip codes. Otherwise, each word, abbreviation, model number or group of letter/numbers is counted as one word. Remittance must accompany each ad.

See next column for additional information on advertising. For further information, phone the Auto-Call editor at (703) 536-8469, McLean, VA.

ADVERTISING

SHACK SALES

Non-commercial advertising of Amateur associated equipment is available to subscribers of Auto-Call at 3¢ per word - with a \$1.00 minimum. Commercial vendors and non-subscriber rate is 17¢ per word - with a \$5.50 minimum.

Special headings or special spacing may be used (e.g., one item per line) but such ads are charged at a column inch rate - \$1.00 per column inch for non-commercial ads, \$5.50 per inch for commercial vendors and nonsubscribers.

Full name and address must be provided with each ad but need not be published. No ads will be accepted over the telephone. Since no effort is made to investigate advertisers, no warranty can be implied.

DISPLAY ADS

DISPLAY ADS are "boxed" and may contain artwork or photographs. They may be placed along with the Shack Sales or displayed in other sections of the magazine. Requests for specific locations will be honored if practical but cannot be guaranteed.

Display ads are charged according to size and duration of run as shown below. All advertising must be pre-paid for at least the current month.

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Page	Col	inch	1 Year	6 Times	3 Times	1 Time
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1/4	4½	33.00	38.00	41.00	43.00
1/6	3	22.00	26.00	28.00	30.00
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1/18	1	8.50	10.00	11.00	11.50

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Newington, CT. 06111

USA

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MARCH 1991

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					1 Mobileers Shenandoah	2 Stafford <u>EXAMS</u> College Park Richmond
3	4 Dept of State*	5 Antietam PG Wireless	6 BARC MARC	7 Anne Arundel	8 Alexandria SMARC Vienna	9 Stafford <u>EXAMS</u> Anne Arundel Frederick *
10 Metrocom	11 PVRC	12 Fauquier MADRAS	13 Laurel (Inf) Pentagon --FAR--	14 Mt Vernon No VA	15 Rock Creek Shenandoah	16 Capital City Stafford Tri County <u>EXAMS</u> Laurel
17	18 Ole VA Hams Sterling Pk*	19 Antietam Arlington Woodbridge	20 BARC Goddard MARC QCWA #137	21 Anne Arundel QCWA #20	22 New Carrlton Vienna	23 Stafford
24 Adventists	25	26 Columbia MADRAS	27 Laurel QCWA #20	28 St Marys	29	30 Stafford

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